

DESIGN DESIGNATION

A.A.D.T. - 2024 = 7654
A.A.D.T. - 2044 = 7734
D.H.V = 9.83%
T = 6.26 %
V = 25 M.P.H.
D = 50.6%/49.4%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

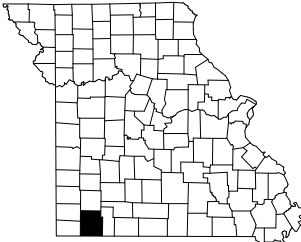
NO NEW R/W REQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

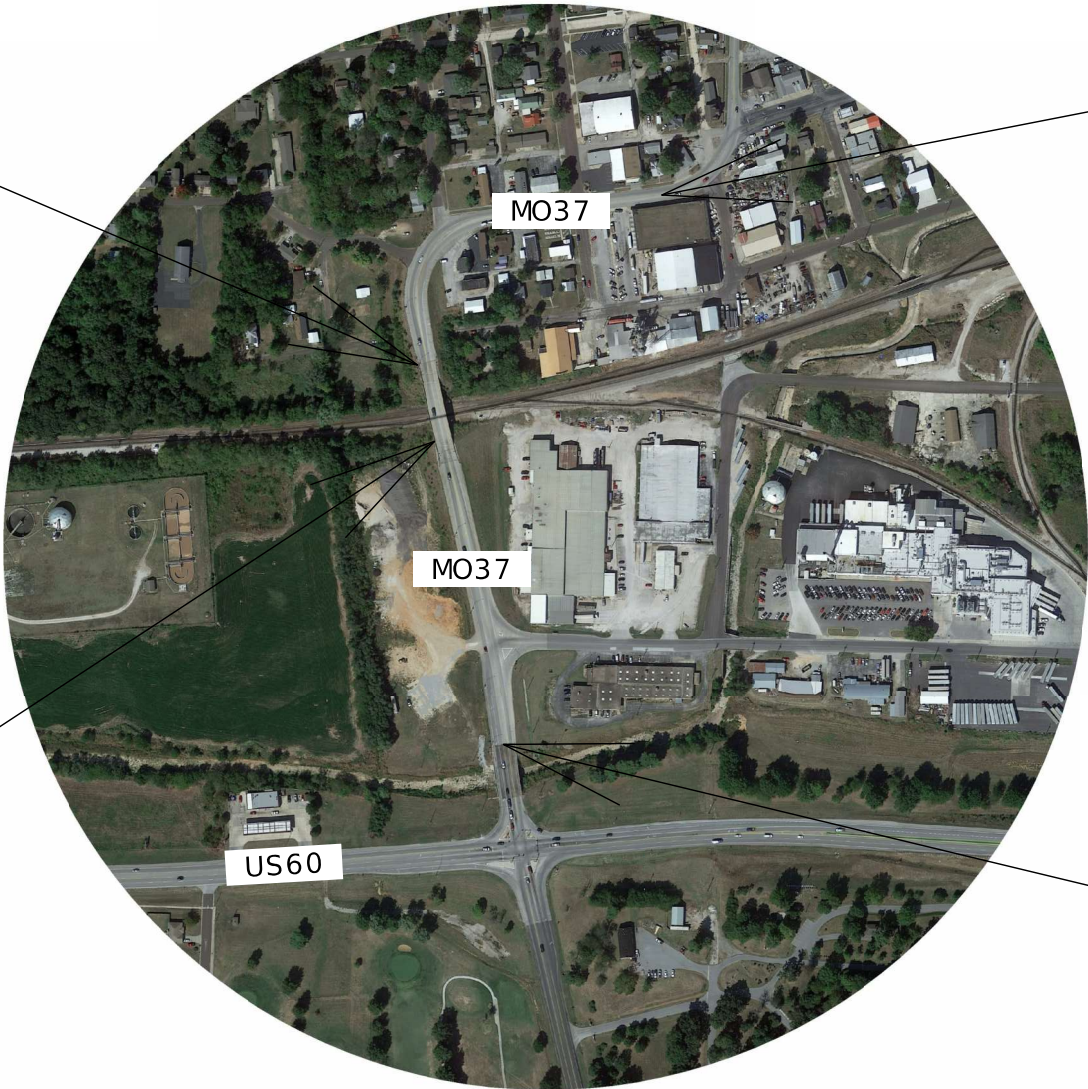
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
BARRY COUNTY



KEY MAP
LOCATION OF BARRY COUNTY
T26NR27WS31

BRIDGE A5159
EXCEPTION
LM. 45.866
TO LM. 45.940



NOT TO SCALE

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEETS)--	2
QUANTITIES (QU) (3 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-5
TRAFFIC CONTROL SHEETS (TC)-----	6-13



Darrell R. Cook
01-29-2024 10:31:33
DARRELL RAY COOK - CIVIL
MO-PE-2005000971

DATE PREPARED
1/25/2024
ROUTE 37 STATE MO
DISTRICT SW SHEET NO. 1

COUNTY
BARRY
JOB NO.
J7P3455
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



LENGTH OF PROJECT

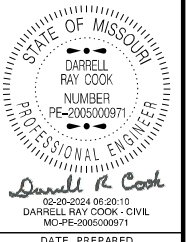
BEGINNING OF PROJECT	LM.	45.709
END OF PROJECT	LM.	46.074
APPARENT LENGTH		1927.2 FEET
EQUATIONS AND EXCEPTIONS:		
	LM.	45.886 - LM. 45.940
APPARENT LENGTH		285.1 FEET

TOTAL CORRECTIONS	285.1 FEET
NET LENGTH OF PROJECT	1642.1 FEET
STATE LENGTH	0.311 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0 ACRES

SURFACE PLACEMENT - ONE PASS PER LANE
NO S.E. CORRECTION

ASPHALT FACTORS		
	<u>COMBINED FACTOR</u>	<u>% AC</u>
SP095B (PG64-22)	1.970 TONS	5.5
TACK COAT		
MILLING		0.10 GAL/SY
IRREGULARITIES: 75 TONS/MI		



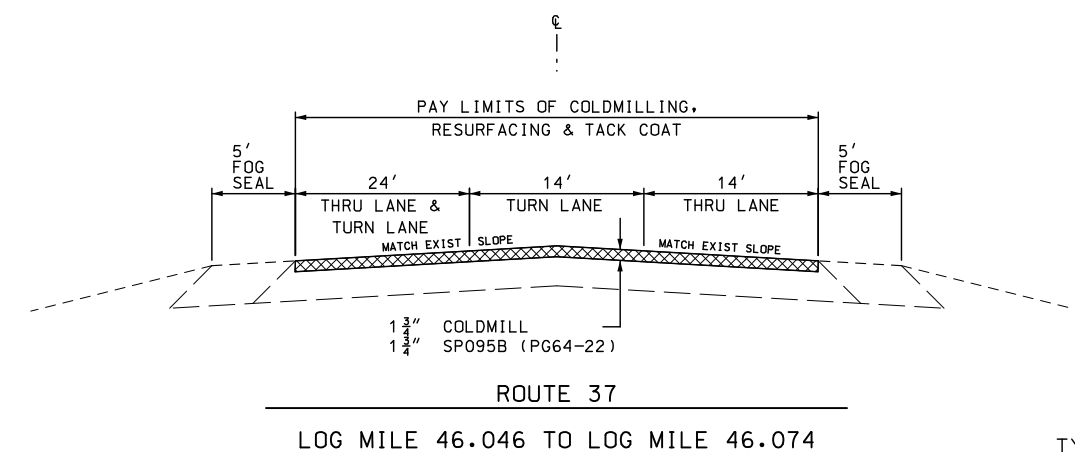
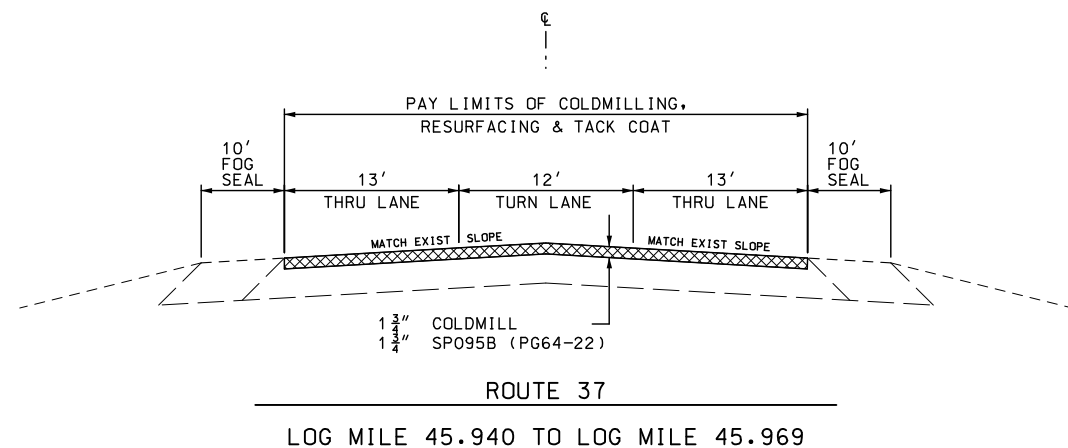
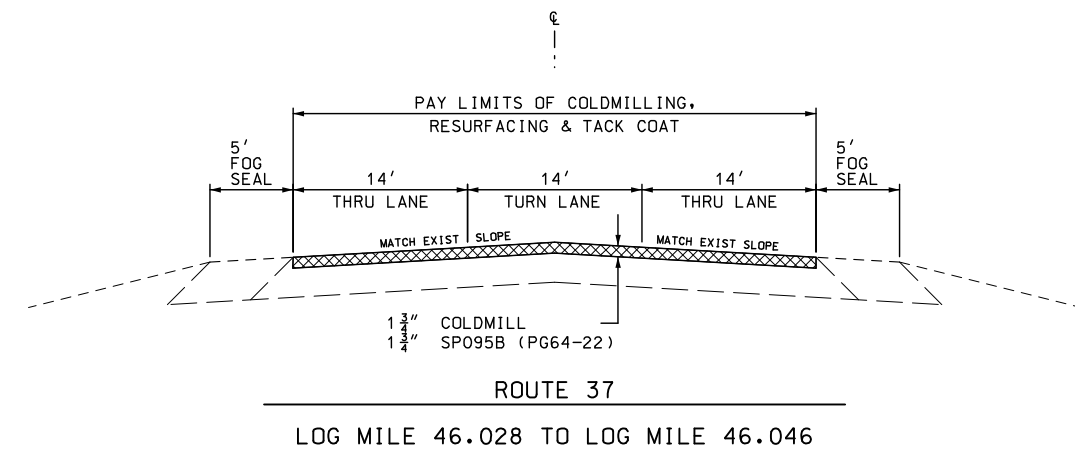
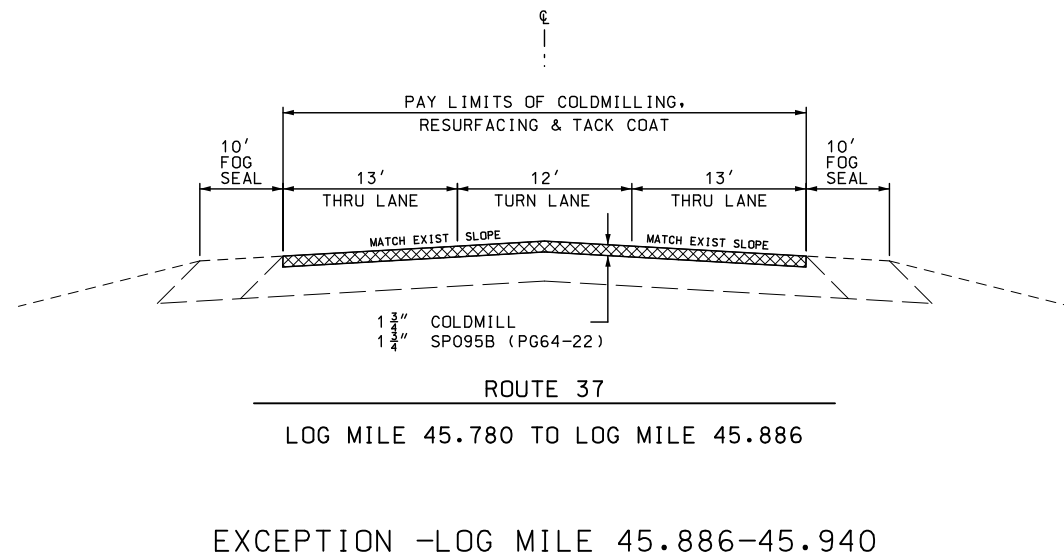
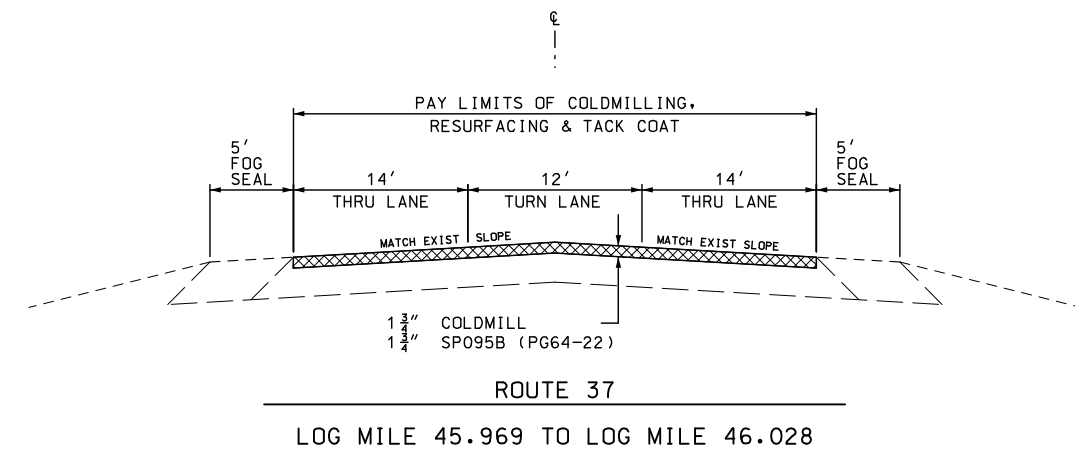
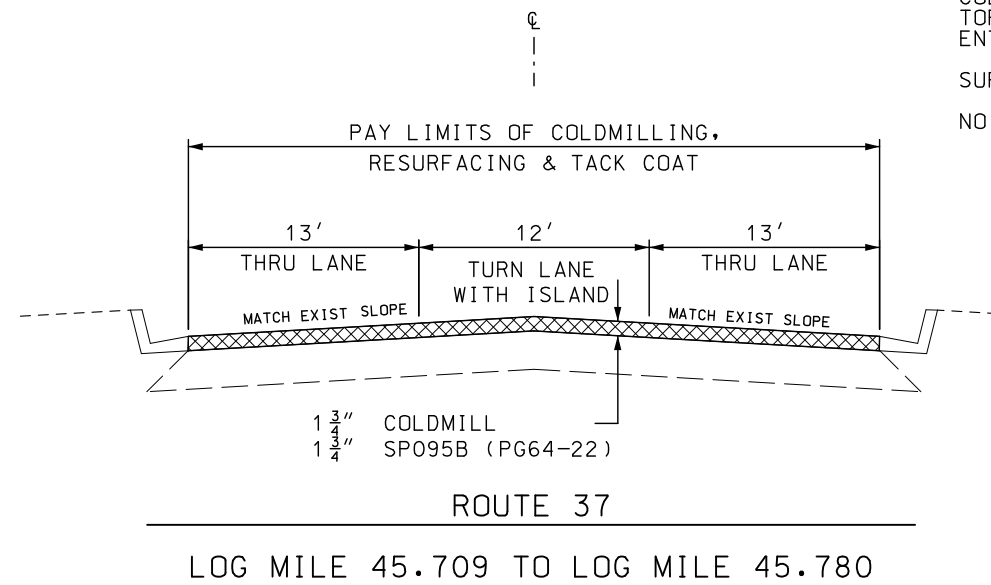
DATE PREPARED	
2/13/2024	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	
BARRY	
JOB NO.	
J7P3455	
CONTRACT ID.	

PROJECT NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITAL
JEFFERSON CITY, MO. 65102
1-888-ASK-MODOT (1-888-275-6636)



NOT TO SCALE

TYPICAL SECTIONS
SHEET 1 OF 1

CONTRACTOR FURNISHED SURVEYING & STAKING
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACE (3 IN. THICK OR LESS)							
ROUTE	LOG MILE	TO	LOG MILE	NET LENGTH	AVERAGE WIDTH	AREA	REMARKS
				LF	LF	SY	
37	45.742		45.780	200.6	38.0	847.0	
37	45.780		45.886	559.7	38.0	2363.2	
37	45.940	-	45.969	153.1	38.0	646.4	
37	45.969	-	46.028	311.5	40.0	1384.4	
37	46.028	-	46.046	95.0	42.0	443.3	
37	46.046	-	46.074	147.8	52.0	854.0	
TOTAL						6538.3	
USE						6539	

REMOVAL OF IMPROVEMENTS							
ROUTE	LOG MILE	-	LOG MILE	DESCRIPTION	UNITS /LF	TOTAL	REMARKS
37	45.838	-	45.897	GUARDRAIL	283.5	283.5	
37	45.884	-	45.897	GUARDRAIL	64.7	348.2	
37	45.929	-	45.940	GUARDRAIL	60.7	408.9	
37	45.929	-	45.940	GUARDRAIL	61.0	469.9	
		-					
TOTAL						1 LUMP SUM	

BITUMINOUS PAVEMENT											
ROUTE	LOG MILE	TO	LOG MILE	NET LENGTH	AVERAGE WIDTH	APPROACH AREA	1.75" SP095B (PG 64-22) FACTOR 1.985	TACK RATES 0.08	SHLD. AVERAGE WIDTH	FOG SEAL TACK RATES 0.10	REMARKS
				LF	LF	SF	TONS	GAL	LF	GAL	
37	45.709		45.780	374.9	38.0		155.8	126.6			
37	45.780		45.886	559.7	38.0		232.6	189.1		2.1	FOG SEAL THE SHOULDERS
37	45.940	-	45.969	153.1	38.0		63.6	51.7	20.0	0.6	FOG SEAL THE SHOULDERS
37	45.969	-	46.028	311.5	40.0		136.3	110.8	10.0	1.2	FOG SEAL THE SHOULDERS
37	46.028	-	46.046	95.0	42.0		43.6	35.5	10.0	0.4	FOG SEAL THE SHOULDERS
37	46.046	-	46.074	147.8	52.0		84.0	68.3	10.0	0.7	FOG SEAL THE SHOULDERS
ENTRANCES AND IRREGULARITIES											
37	45.709		45.796	459.4			13.3				IRREGULARITIES 75 TONS/MILE
37	45.780		45.886	559.7			2.2				IRREGULARITIES 75 TONS/MILE
37	45.940	-	45.969	153.1			2.2				IRREGULARITIES 75 TONS/MILE
37	45.969	-	46.028	311.5			4.4				IRREGULARITIES 75 TONS/MILE
37	46.028	-	46.046	95.0			1.3				IRREGULARITIES 75 TONS/MILE
37	46.046	-	46.074	147.8			2.0				IRREGULARITIES 75 TONS/MILE
TOTALS							741.3	582.0		5.0	
USE							741.3	582		5	

NOTE: ANY AND ALL IRREGULARITIES MAY BE UNDERRUN AND NO ADJUSTMENT TO ANY UNIT BID COST WILL BE MADE.

PAVEMENT MARKING															
ROUTE	LOG MILE	TO	LOG MILE	LOCATION	WATERBORNE PAINT, TYPE P BEADS				PREFORMED THERMOPLASTIC MARKING						
					4" INT WHITE	4" SOLID WHITE	4" INT YELLOW	4" SOLID YELLOW	6" WHITE	24" WHITE	24" YELLOW	LEFT/RIGHT ARROW	STRAIGHT ARROW	COMB ARROW STR/LT/RT	30" MIDBLOCK
					LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA
37	45.709		45.713	BARRY			12.0	22.0							
37	45.713		45.839	BARRY			340.0	1330.0							7
37	45.839		45.897	BARRY		610.0	80.0	1220.0							
37	45.897		45.937	BARRY		420.0		420.0							
37	45.937		45.976	BARRY		410.0	50.0	820.0							
37	45.976		46.096	BARRY		1270.0	320.0	1270.0							
37	46.096		46.137	BARRY		645.0		430.0			44	4			
						0.0	0.0	0.0							
						0.0	0.0	0.0							
TOTALS					0	3355	802	5512	0	0	44	4	0	0	7
USE						3355		6314	0	0	44	4	0	0	7

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

02-29-2024 10:44:43

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED
2/20/2024

ROUTE
37

STATE
MO

DISTRICT
SW

SHEET NO.
3

COUNTY
BARRY

JOB NO.
J7P3455

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

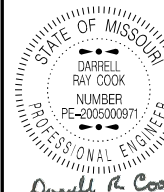
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



01-29-2024 10:35:06
DARRELL RAY COOK - CIVIL
MO-PE-2005000971

DATE PREPARED
1/25/2024

ROUTE 37 STATE MO

DISTRICT SW SHEET NO. 3

COUNTY BARRY

JOB NO. J7P3455

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

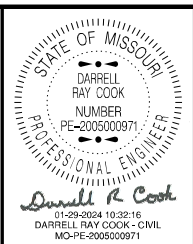
MODOT

MGS GUARDRAIL									
ROUTE	LOG MILE	LOG MILE	LOC	NET LENGTH	MGS GUARDRAIL	MGS BRIDGE APPROACH TRANSITION SECTION	MASH CWT	SHAPING SLOPES, CL III	REMARKS
				(FT)	(LF)	(EA)	(EA)	(100 FT)	
37	45.838	45.897	LT	283.5	200	1	1	3.1	
37	45.884	45.897	RT	64.7	12.5	1	1	0.9	
37	45.929	45.94	LT	61	12.5	1	1	0.9	
37	45.929	45.94	RT	60.7	12.5	1	1	0.9	
TOTALS					237.5	4	4	5.8	
USE					238	4	4	6	

PERMANENT AGGREGATE EDGE TREATMENT						
ROUTE	LOG MILE	TO	LOG MILE	LENGTH MILES	AGGREGATE 200 TON/MILE* TON	PRIME MC 800 590 GAL/MILE* GAL
37	45.712	-	46.137	0.425	85.0	251
		-		0.000	0.0	0
		-		0.000	0.0	0
		-		0.000	0.0	0
TOTALS					85.0	251
				*INCLUDES 2' WIDTH BOTH SIDES OF ROADWAY		

EFFECTIVE: 04-01-2023																															
SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN					SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN												
IN.	SQ.FT.	EACH	SQ.FT.	EACH	SQ.FT.	NUM.	DESCRIPTION							SIGN	IN.	SQ.FT.	EACH	SQ.FT.	EACH	SQ.FT.	NUM.										
WARNING SIGNS							DESCRIPTION							GUIDE SIGNS							DESCRIPTION							ITEM	TOTAL	DESCRIPTION	
																												NUMBER	QTY		
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)	E05-1	36X48	12.00									GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)									
WO1-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)	E05-2	48X36	12.00									EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)									
WO1-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)	E05-2a	48X36	12.00									EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)									
WO1-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)	GO20-1	60X24	10.00	2	20							ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)									
WO1-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)	GO20-2	48X24	8.00	2	16							END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)									
WO1-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)	GO20-4	36X18	4.50	2	9							PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)									
WO1-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)	GO20-4a	42X30	8.75	0								PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)									
WO1-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)	GO20-4a	18X12	1.50	6	9							PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL									
WO1-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	GO20-5aP	36X24	6.00	4	24							WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)									
WO1-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4-8a	24X18	3.00									END DETOUR	6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)									
WO1-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	MO4-9L	48X36	12.00									DETOUR (LEFT ARROW)	6161008	2	ADVANCED WARNING RAIL SYSTEM									
WO1-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4-9R	48X36	12.00									DETOUR (RIGHT ARROW)	6161012		BUOYS (BOATS KEEP OUT)									
WO1-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00									STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)									
WO1-6a	72X36	18.00					HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00									DETOUR (ARROW LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)									
WO1-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00									DETOUR (ARROW RIGHT)	6161025	100	CHANNELIZER (TRIM LINE)									
WO1-7a	72X36	18.00					DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS											6161030		TYPE III MOVEABLE BARRICADE										
WO1-8	18X24	3.00					CHEVRON (SYMBOL)	R1-1	48X48	13.25									STOP	6161033		DIRECTION INDICATOR BARRICADE									
WO1-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93									YIELD	6161040		FLASHING ARROW PANEL									
WO3-1	48X48	16.00					STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00									TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER									
WO3-2	48X48	16.00					YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50									ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT									
WO3-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4	48							SPEED LIMIT XX	6161070		TUBULAR MARKER									
WO3-4	48X48	16.00	6	96			BE PREPARED TO STOP	R3-1	48X48	16.00									NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM									
WO3-5	48X48	16.00					SPEED LIMIT AHEAD	R3-2	48X48	16.00									NO LEFT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,									
WO4-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00									NO TURNS	6161096		COMMISSION FURNISHED/RETAINED									
WO4-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00									NO U-TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN W/O COMM.									
WO4-1aL	48X48	16.00					MERGE (ARROW SYMBOL)	R3-7L	30X30	6.25									LEFT LANE MUST TURN LEFT	6161098A		INTERFACE - CONTRACTOR FURNISHED/RETAINED									
WO4-1aR	48X48	16.00					MERGE (ARROW SYMBOL)	R3-7R	30X30	6.25									RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.									
WO5-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00									DO NOT PASS	6161099	2	INTERFACE - CONTRACTOR FURNISHED/RETAINED									
WO5-3	48X48	16.00					ONE LANE BRIDGE	R4-2	36X48	12.00									PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM									
WO5-5	48X48	16.00					NARROW LANES	R4-8a	36X48	12.00									KEEP LEFT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS									
WO6-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)	R4-7a	36X48	12.00									KEEP RIGHT (HORIZONTAL ARROW)			TEMPORARY TRAFFIC BARRIER									
WO6-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25									DO NOT ENTER	6173600D		CONTRACTOR FURNISHED/RETAINED									
WO6-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00									WRONG WAY			TEMPORARY TRAFFIC BARRIER									
WO7-3a	30X24	5.00					NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75									ONE WAY ARROW (LEFT)	6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED									
WO8-1	48X48	16.00					BUMP	R6-1R	54X18	6.75									ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION									
WO8-2	48X48	16.00					DIP	R6-2L	24X30	5.00									ONE WAY (LEFT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER									
WO8-3	48X48	16.00					PAVEMENT ENDS	R6-2R	24X30	5.00									ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER									
WO8-4	48X48	16.00					SOFT SHOULDER	R9-9	24X12	2.00									SIDEWALK CLOSED	6176000B		COMMISSION FURNISHED/RETAINED									
WO8-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)												SIDEWALK CLOSED AHEAD,			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION									
WO8-6	48X48	16.00					TRUCK CROSSING (WITH FLAGS)	R9-11L	24X18	3.00									(ARROW LEFT) CROSS HERE	6177000B		COMMISSION FURNISHED/RETAINED									
WO8-6c	48X48	16.00					TRUCK ENTRANCE												SIDEWALK CLOSED AHEAD,	6208064A		TEMPORARY RAISED PAVEMENT MARKER									
WO8-7	36X36	9.00					LOOSE GRAVEL	R9-11R	24X18	3.00									(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS									
WO8-7a	36X36	9.00					FRESH OIL/LOOSE GRAVEL	R10-6	24X36	6.00									STOP HERE ON RED (45° ARROW)	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING									
WO8-9	48X48	16.00					LOW SHOULDER	R11-2	48X30	10.00									ROAD CLOSED												
WO8-11	48X48	16.00	2	32			UNEVEN LANES												ROAD CLOSED XX MILES AHEAD												
WO8-12	48X48	16.00	2	32			NO CENTER LINE	R11-3a	60X30	12.50									LOCAL TRAFFIC ONLY												
WO8-15	48X48	16.00					GROOVED PAVEMENT	R11-4	60X30	12.50									ROAD CLOSED TO THRU TRAFFIC												
WO8-15P	30X24	5.00					MOTORCYCLE (PLAQUE)	CONST-3A	60X48	20.00									FINE SIGN												
WO8-17	48X48	16.00					SHOULDER DROP-OFF (SYMBOL)	CONST-3X	56X12	4.67									SPEEDING/PASSING (PLATE)												
WO8-17P	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)	MISCELLANEOUS SIGNS																							
W10-1	42RND.	9.62					RAILROAD CROSSING	CONST-5	48X36	12.00									POINT OF PRESENCE												
WO12-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)	CONST-5	96X48	32.00	2	64							POINT OF PRESENCE												
WO12-2	48X48	16.00					LOW CLEARANCE (SYMBOL)	CONST-7	48X24	8.00									RATE OUR WORK ZONE												
WO12-2X	24X18	3.00					LOW CLEARANCE (PLAQUE)	CONST-7	72X36	18.00	2	36							RATE OUR WORK ZONE												
WO12-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)	CONST-8	48X36	12.00	2	24							WORK ZONE NO PHONE ZONE												
WO12-4	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD																								
WO12-5	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD																								
WO13-1	30X30	6.25					ADVISORY SPEED (PLAQUE)																								
WO16-2	30X24	5.00					XXX FEET (PLAQUE)																								
WO16-3	30X24	5.00					X MILE (PLAQUE)																								
WO20-1	48X48	16.00	12	192			ROAD/BRIDGE/RAMP WORK AHEAD																								
WO20-2	48X48	16.00					DETOUR AHEAD																								
WO20-3	48X48	16.00					ROAD CLOSED AHEAD																								
WO20-4	48X48	16.00	4	64			ONE LANE ROAD AHEAD	616-10.05	TOTAL																						
WO20-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD	CONSTRUCTION SIGNS			730																				
WO20-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10.10			TOTAL																				
WO20-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED	RELOCATED SIGNS			0																				
WO20-7a	48X48	16.00	4	64			FLAGGER (SYMBOL, WITH FLAGS)																								
WO21-2	36X36	9.00					FRESH OIL																								
WO21-5	48X48	16.00					SHOULDER WORK AHEAD																								
WO22-1	48X48	16.00					BLASTING ZONE AHEAD																								
WO22-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE																								
WO22-3	42X36	10.50					END BLASTING ZONE																								
GO22-1	21X15	2.19					WET PAINT (ARROW PIVOTS)																								

SUMMARY OF QUANTITIES
SHEET 3 OF 3



DATE PREPARED
1/24/2024


ROUTE 37	STATE MO
DISTRICT SW	SHEET NO. 3

COUNTY
BARRY
JOB NO.
J7P3455

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

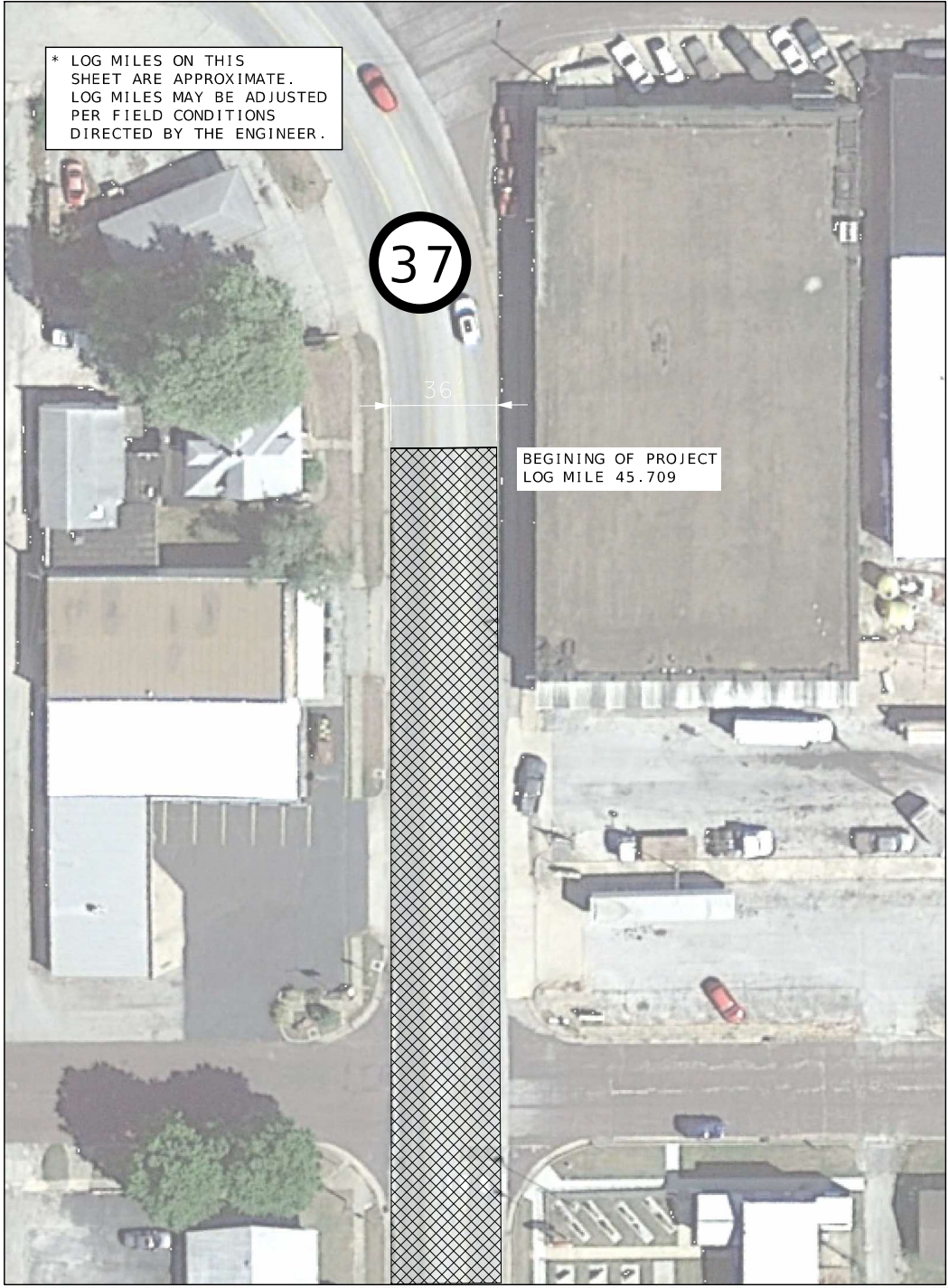
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

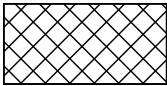
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PROJECT BEGINNING AND ENDING

BEGINNING OF PROJECT

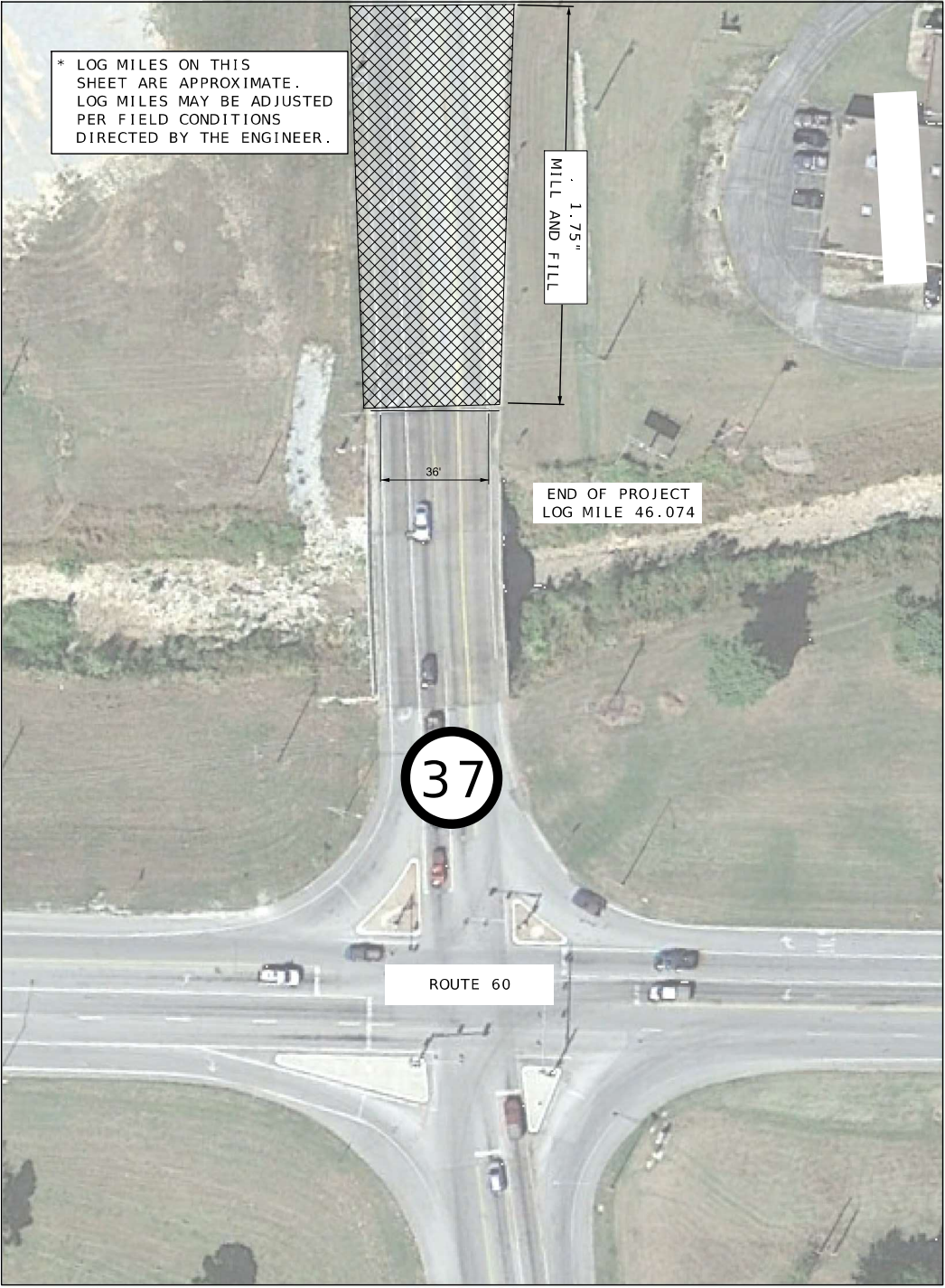


NOT TO SCALE



1.75" MILL AND FILL

END OF PROJECT

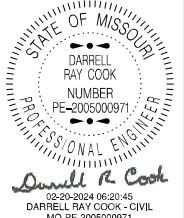


NOT TO SCALE



1.75" MILL AND FILL

SPECIAL SHEET
SHEET 1 OF 2



DATE PREPARED
2/13/2024

ROUTE 37	STATE MO
DISTRICT SW	SHEET NO. 4

COUNTY
BARRY

JOB NO.
J7P3455

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

BRIDGE A5159 & CHAROKEE SUB RAILROAD

* LOG MILES ON THIS SHEET ARE APPROXIMATE. LOG MILES MAY BE ADJUSTED PER FIELD CONDITIONS DIRECTED BY THE ENGINEER.

REMOVE AND REPLACE GUARDRAIL 283.5' NW
REMOVE AND RRPALCE GURADRAIL 64.7' NE

END EXEMPTION:
LOG MILE 45.886

CHAROKEE SUB RAILROAD

BRIDGE A5159

CHAROKEE SUB RAILROAD

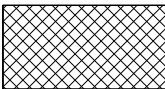
REMOVE AND REPLACE GUARDRAIL 61.0' SW
REMOVE AND RRPALCE GURADRAIL 60.7' SE

END EXEMPTION:
LOG MILE 45.940

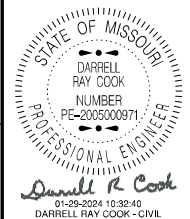


NOT TO SCALE

LEGEND



EXCEPTION

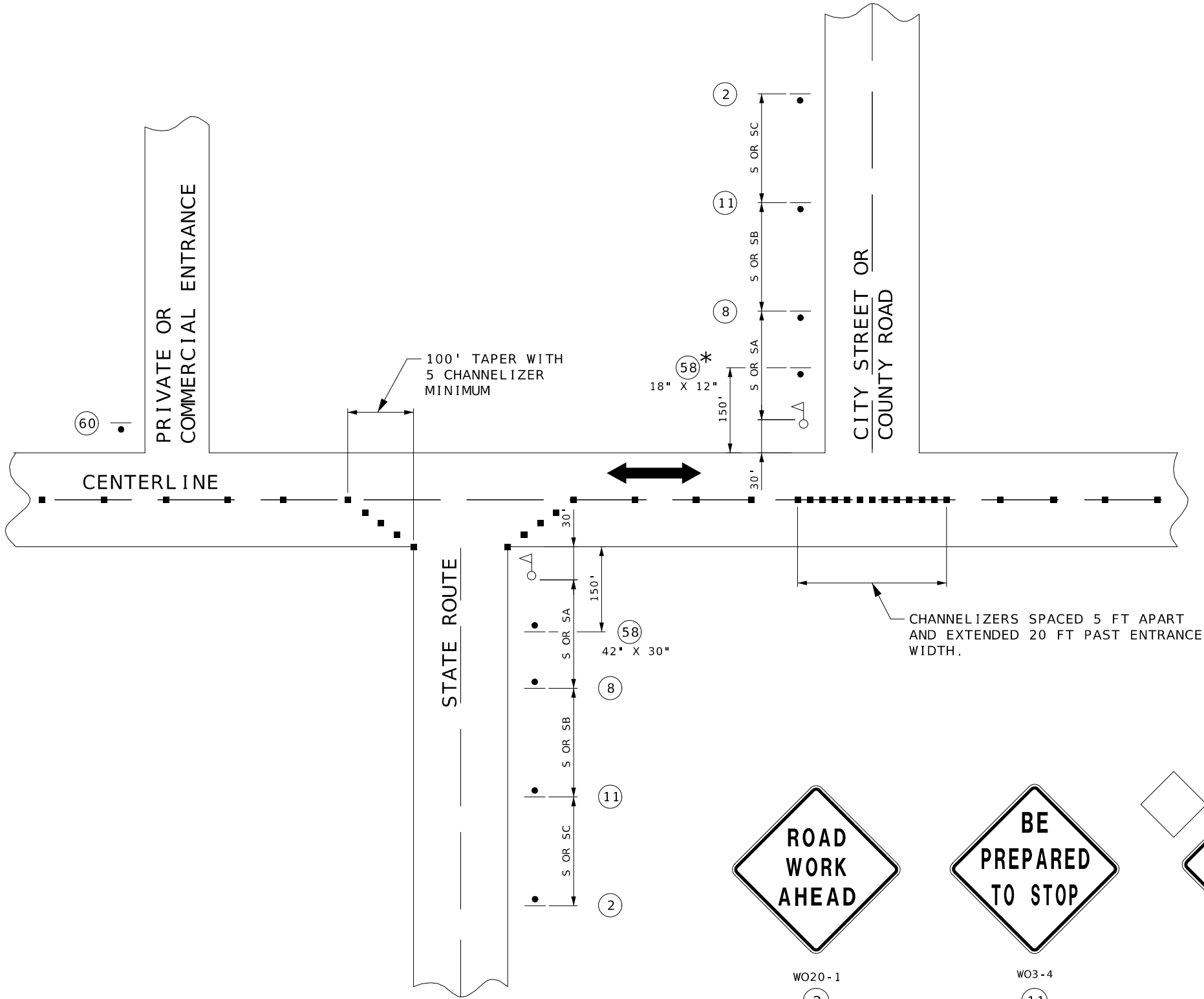


DATE PREPARED
1/24/2024
ROUTE
37
STATE
MO
DISTRICT
SW
SHEET NO.
5
COUNTY
BARRY
JOB NO.
J7P3455
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIDE ROADS ENTERING WORK ZONES



SPEED	SIGN SPACING (FT.)	
	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA) - 1000 (SB) - 1500 (SC) - 2640

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.
ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

■ - CHANNELIZERS

○ - FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).



SHALL BE USED ON ALL STATE ROUTES AND MAY BE USED ON ANY NON-STATE ROUTES, AS DETERMINED BY THE ENGINEER.
* THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).



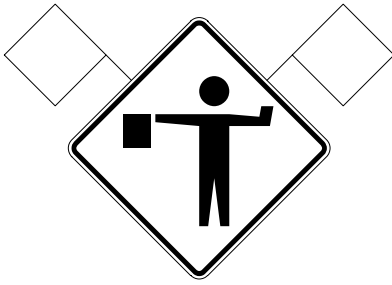
SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10



WO20 - 1
2

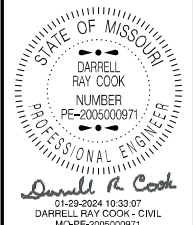


WO3 - 4
11



WO20 - 7a
8

NOT TO SCALE



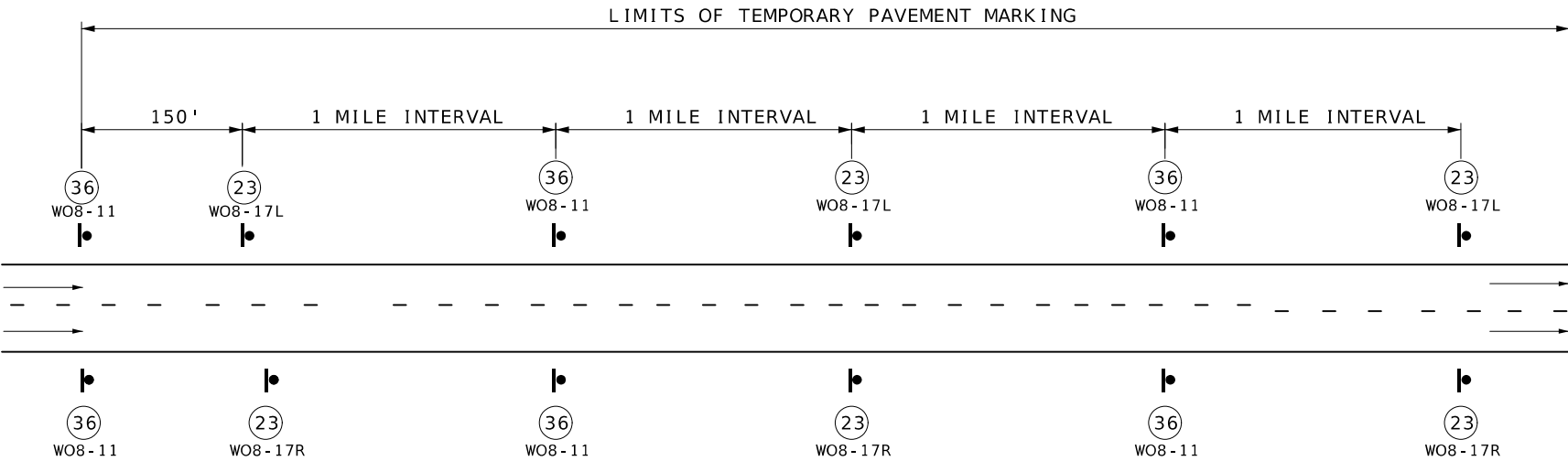
DATE PREPARED
1/24/2024
ROUTE
37
STATE
MO
DISTRICT
SW
SHEET NO.
8
COUNTY
BARRY
JOB NO.
J7P3455
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

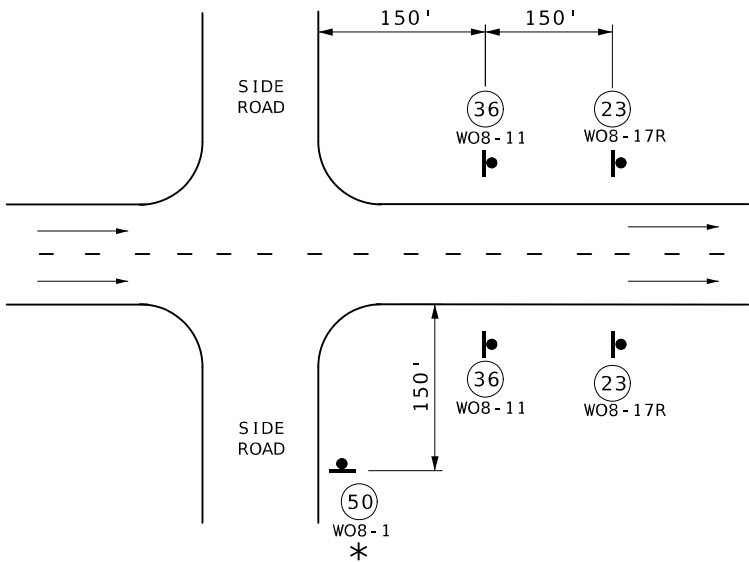
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REVISÉD: 4/25/2023



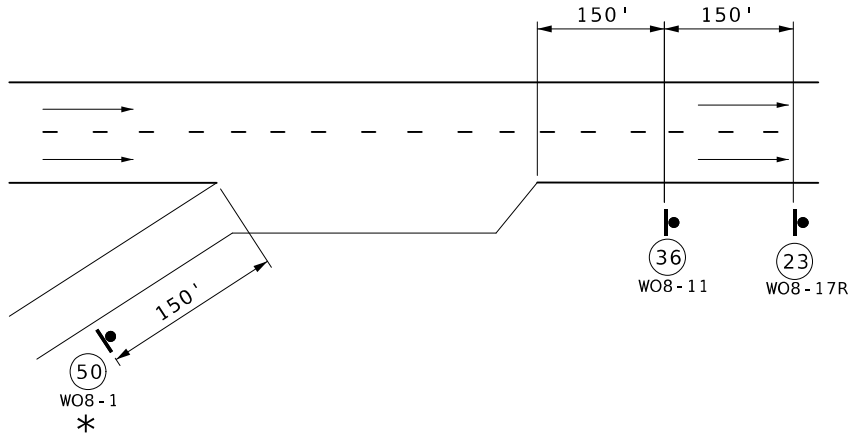
SIGN SPACING FOR DIVIDED OR MULTI-LANE HIGHWAY

(DETAIL SHOWN S BASED ON A PROJECT MEETING CONDITIONS OF UNEVEN LANES AND SHOULDER DROP-OFF.)
WHEN BOTH UNEVEN LANES AND SHOULDER DROP-OFF SIGNS ARE USED, BOTH SIGNS SHALL STAY IN PLACE UNTIL BOTH CONDITIONS NO LONGER EXISTS.
WHEN ONLY ONE CONDITION EXISTS (UNEVEN LANES OR SHOULDER DROP-OFF), SIGN SPACING SHALL BE AT 1 MILE INTERVALS



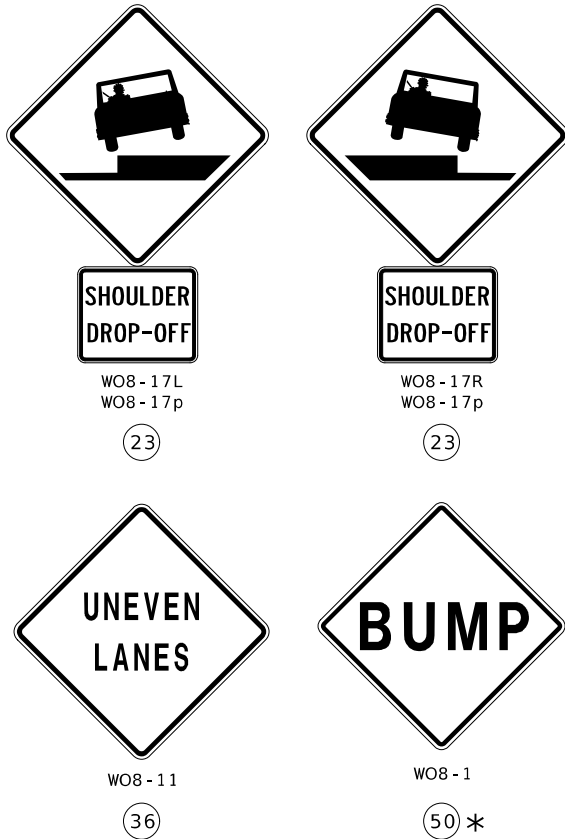
SIGN SPACING AT SIDE ROAD INTERSECTIONS

* BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10.
UNLESS REQUIRED BY STANDARD PLAN 619.10, BUMP SIGN AT CONTRACTOR'S
EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.



SIGN SPACING AT RAMPS

* BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10.
UNLESS REQUIRED BY STANDARD PLAN 619.10, BUMP SIGN AT CONTRACTOR'S
EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.



GENERAL NOTES:

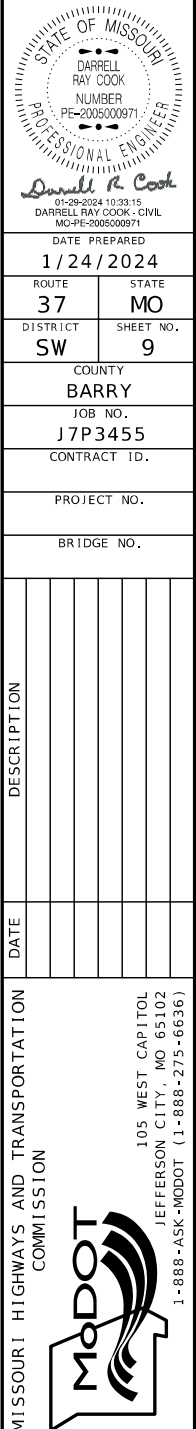
ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE
WITH STANDARD PLANS 616.10 AND 903.03.

WHEN SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE DAYS, THE SHOULDER DROP-OFF PLAQUE SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN.

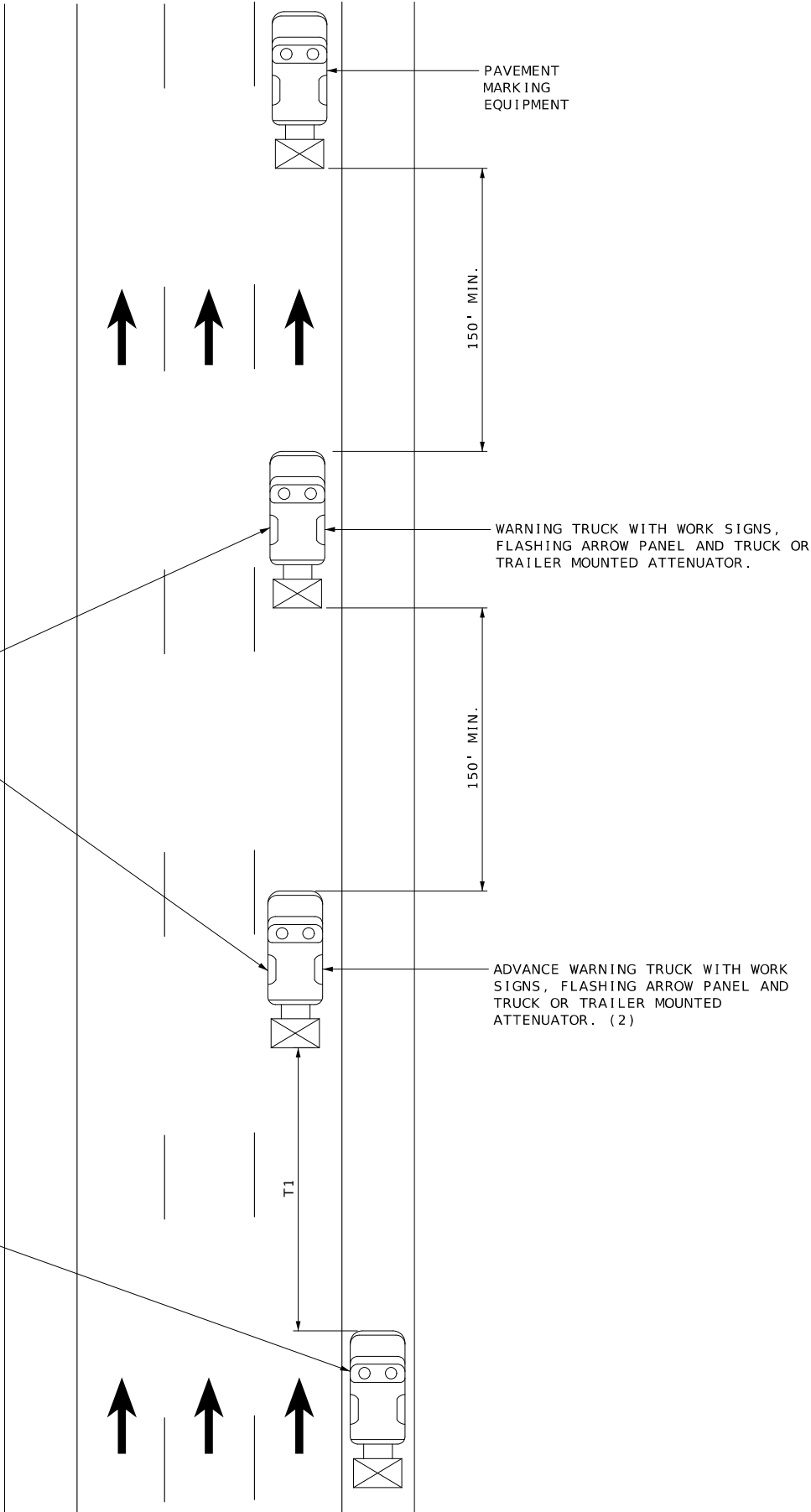
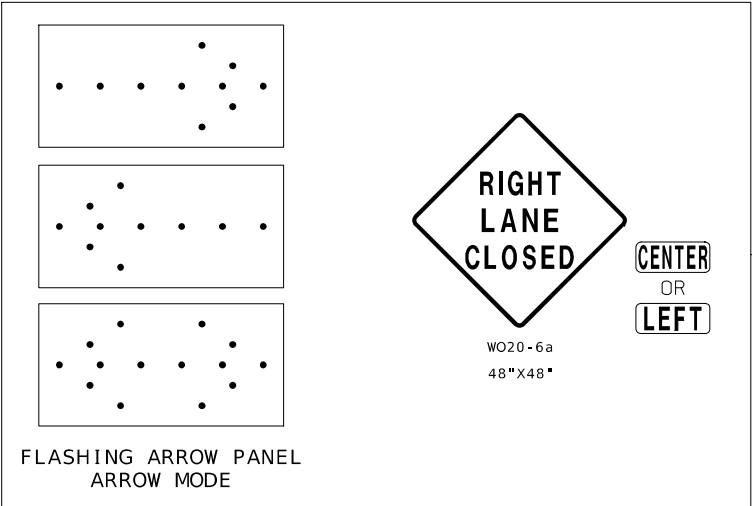
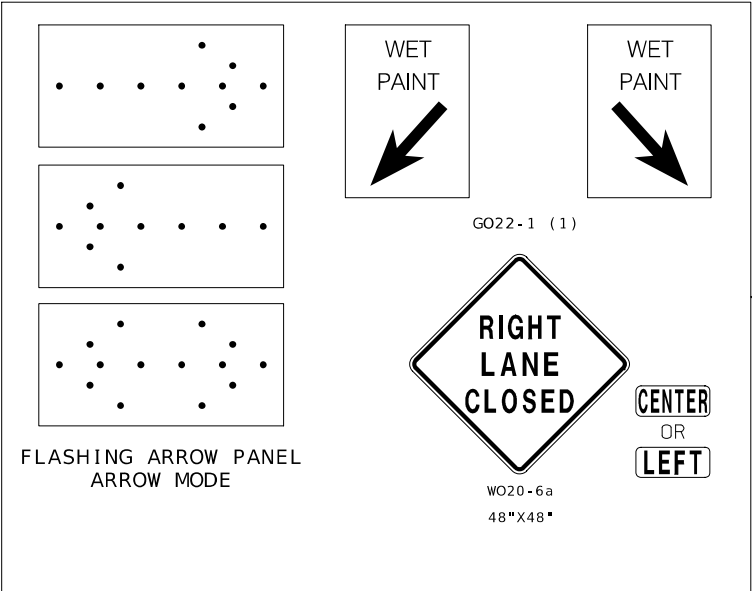
FOR BRIDGE EXCEPTIONS AND COLD MILLED AREAS, LOCATION OF SIGN (50) TO BE APPROVED BY THE ENGINEER. UNLESS REQUIRED BY STANDARD PLAN 619.10, SIGN (50) AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 8



SPEED	SPACING LENGTH (FT)
REGULATORY (MPH)	SPACING (T1)
0-35	245
40-45	540
50-55	660
60-70	840



NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

FLASHING ARROW PANELS AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(2) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR SPACING SHOWN, WHICH EVER IS GREATER.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW PANEL BOARD SHALL BE USED FOR EACH CLOSED LANE.

NOT TO SCALE

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-29-2024 10:33:25

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/24/2024

ROUTE

37

STATE

MO

DISTRICT

SW

SHEET NO.

10

COUNTY

BARRY

JOB NO.

J7P3455

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

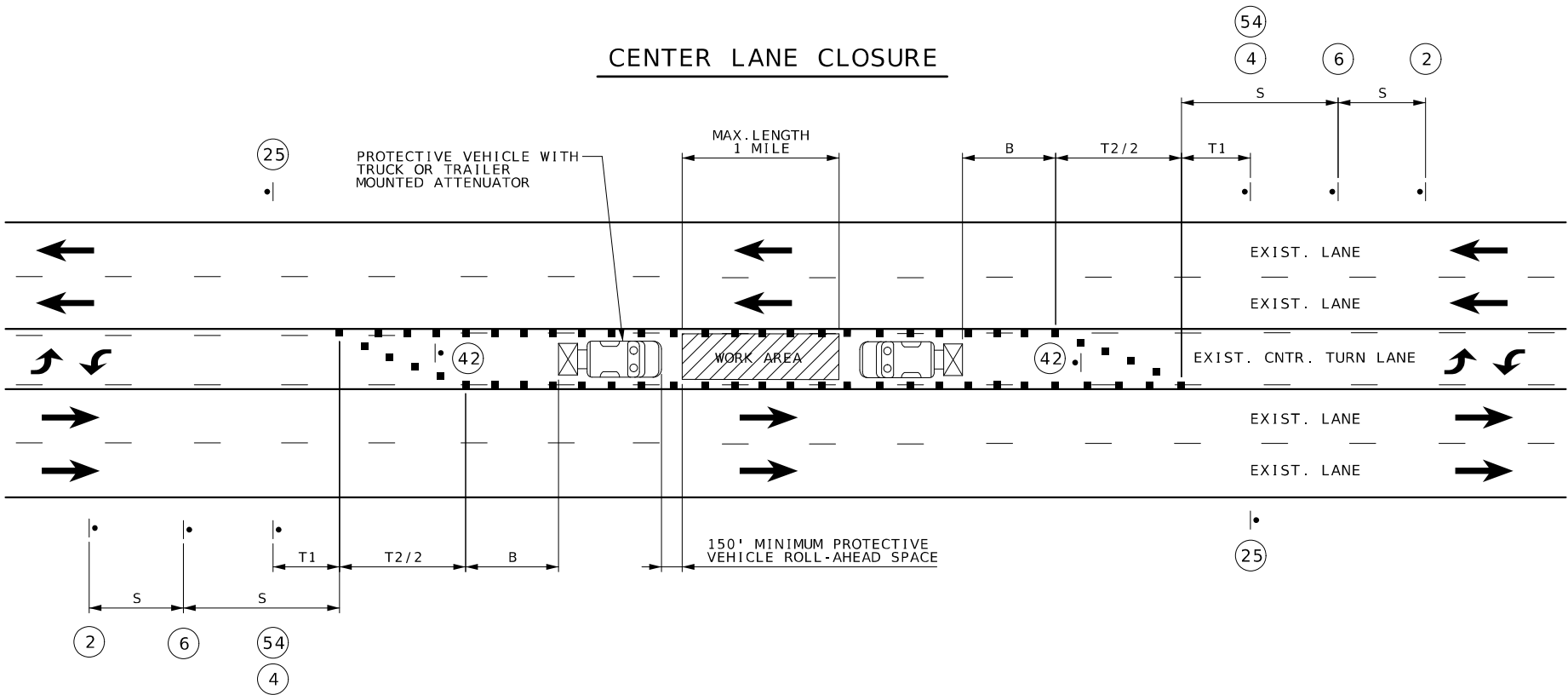
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)



SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL BUFFER LENGTH (FT) (B)	CHANNELIZER SPACING (FT)	
		SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	200	70	245	280	35	40
40-45	350	150	540	400	40	80
50-55	500	185	660	560	50	80
60-70	1000	235	840	840	60	120

NOTES:

(1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

IN TAPER SECTIONS, QUANTITY OF CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAXIMUM CHANNELIZER SPACING IN CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURE, NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CHANNELIZERS, SIGNS, AND FLASHING ARROW PANEL.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING IS ONE-HALF SPACING SHOWN IN TABLE.

SPEED LIMIT SIGNS INDICATING NORMAL SPEED LIMIT SHALL BE INSTALLED AT END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", "NO PHONE ZONE", AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS. SEE JOB SPECIAL PROVISIONS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.



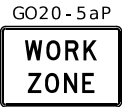
WO20-1
2



WO20-6a
6



R4-7a
42



R2-1



54
4



R2-1
25
(NORMAL SPEED)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 6 OF 8

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-29-2024 10:33:36

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/24/2024

ROUTE

37

DISTRICT

SW

STATE

MO

SHEET NO.

11

COUNTY

BARRY

JOB NO.

J7P3455

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER / WORK AREAS
0-35	200	70	245	280	35	40
40-45	350	150	540	400	40	80
50-55	500	185	660	560	50	80
60-70	1000	235	840	840	60	120

NOTES:

- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
(3) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.



WO20-1
2



WO21-5
21

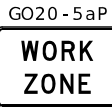


WO5-1
NEXT
XX MILES (3)

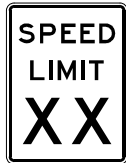
WO7-3a

43 *

* OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.

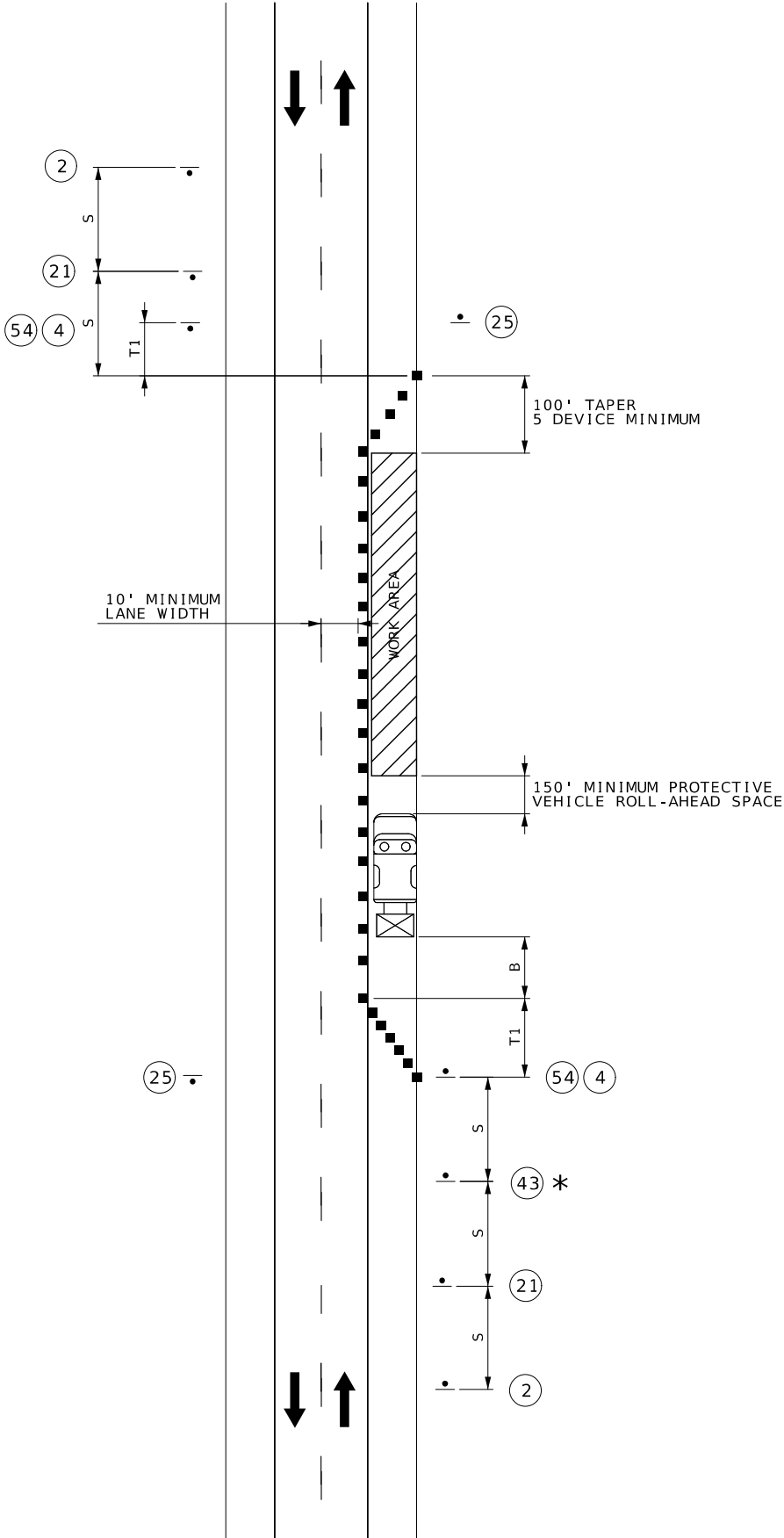


R2-1
54
4

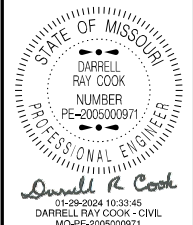


R2-1
25
(NORMAL SPEED)

SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT
OR NO ENCROACHMENT
(UNDIVIDED HIGHWAY)



REVISED: 5/11/2023



DATE PREPARED 1/24/2024	
ROUTE 37	STATE MO
DISTRICT SW	SHEET NO. 12
COUNTY BARRY	
JOB NO. J7P3455	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

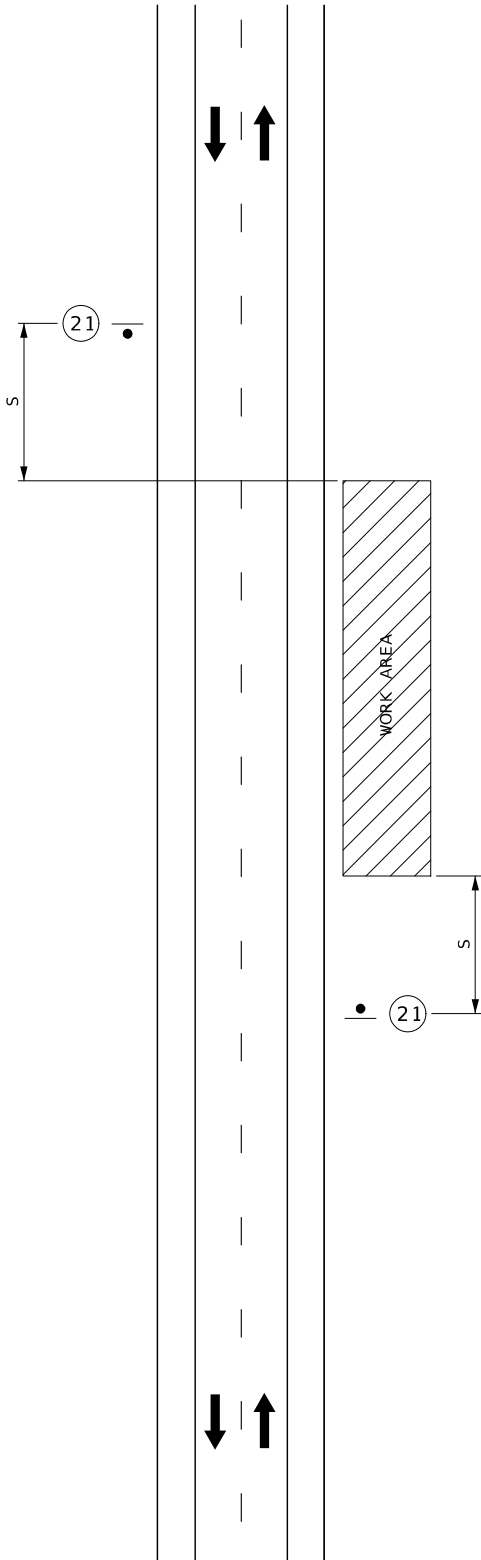
DESCRIPTION	DATE



NOT TO SCALE

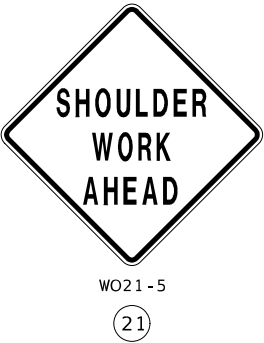
TRAFFIC CONTROL
SHEET 7 OF 8

WORK BEYOND THE SHOULDER
(UNDIVIDED HIGHWAY)

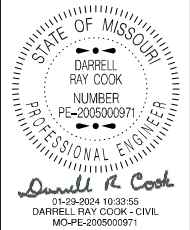


SPEED	SIGN SPACING (FT) (1)
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)
0-35	200
40-45	350
50-55	500
60-70	1000

SPACING NOTES:
(1) SPACING BETWEEN SIGNS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.



NOT TO SCALE



DATE PREPARED 1/24/2024	
ROUTE 37	STATE MO
DISTRICT SW	SHEET NO. 13
COUNTY BARRY	
JOB NO. J7P3455	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DESIGN DESIGNATION

BU 60 FROM ROUTE H TO CHAPEL DR

A.A.D.T. - 2023 = 6200
A.A.D.T. - 2043 = 6850
D.H.V. = 10.13%
T = 6.75%
V = 45 M.P.H.
D = 48.7%/51.3% (E/W)

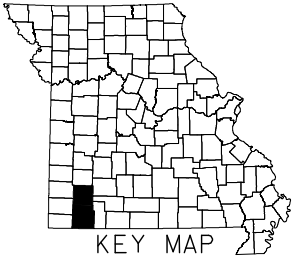
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

BU 60 FROM CHAPEL DR TO RTE 60

A.A.D.T. - 2023 = 4319
A.A.D.T. - 2043 = 4772
D.H.V. = 9.71%
T = 7.43%
V = 55 M.P.H.
D = 47.9%/52.1% (E/W)

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
BARRY AND
LAWRENCE COUNTY



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (8 SHEETS)--	2
QUANTITIES (QU) (4 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-10
TRAFFIC CONTROL SHEETS (TC)-----	11-21



DATE PREPARED	2/13/2024
ROUTE	STATE
BU 60	MO
DISTRICT	SHEET NO.
SW	1
COUNTY	LAWRENCE
JOB NO.	J7S3444
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

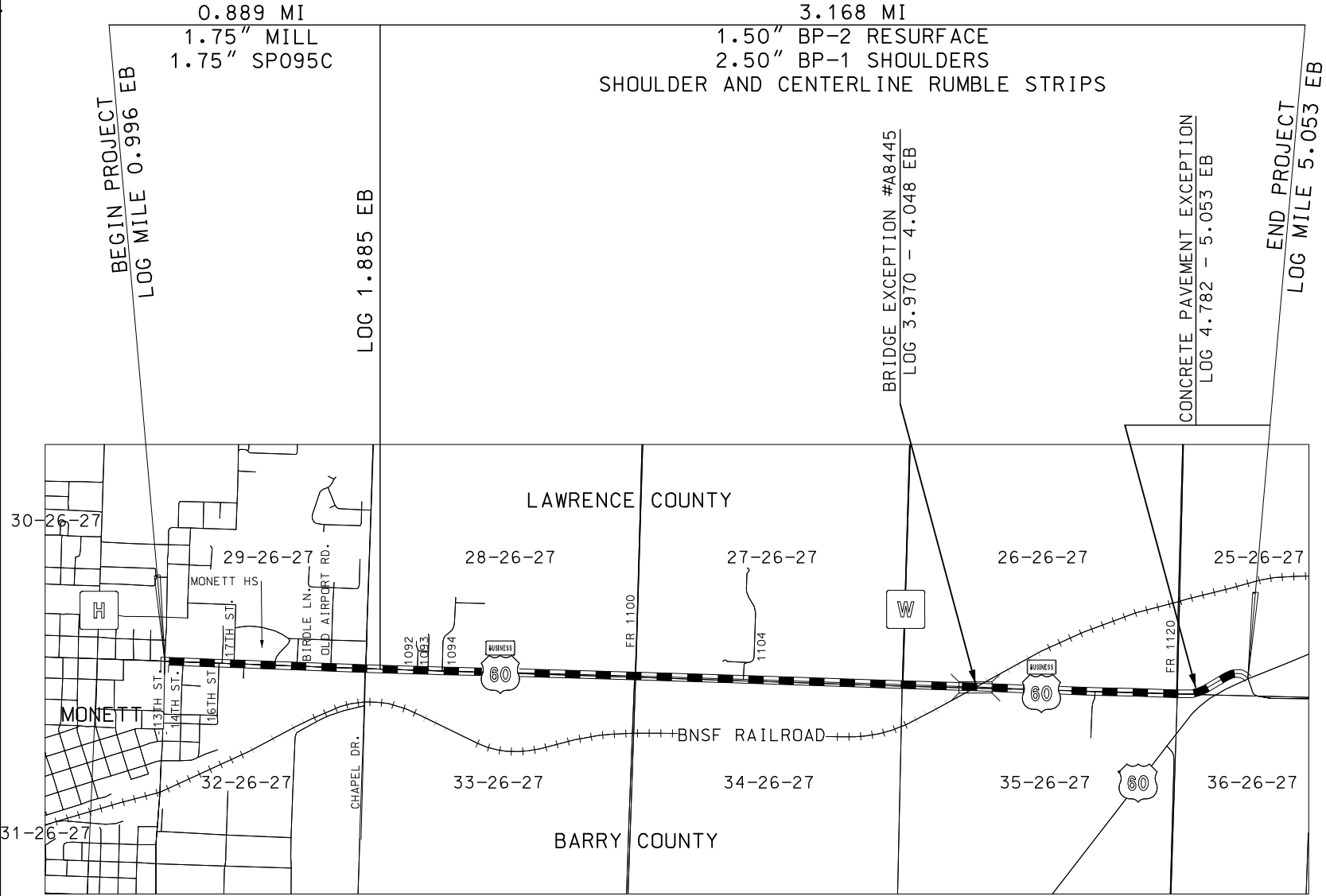
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CONVENTIONAL SYMBOLS
(USED IN PLANS)

EXISTING	NEW
BUILDINGS AND STRUCTURES	
GUARD RAIL	
GUARD CABLE	
CONCRETE RIGHT-OF-WAY MARKER	
STEEL RIGHT-OF-WAY MARKER	
LOCATION SURVEY MARKER	
UTILITIES	
FIBER OPTICS	-FO-
OVERHEAD CABLE TV	-OTV-
UNDERGROUND CABLE TV	-UTV-
OVERHEAD TELEPHONE	-OT-
UNDERGROUND TELEPHONE	-UT-
OVERHEAD POWER	-OE-
UNDERGROUND POWER	-UE-
SANITARY SEWER	-S-
STORM SEWER	-SS-
GAS	-G-
WATER	-W-
MANHOLE	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
DROP INLET	
DITCH BLOCK	
GROUND MOUNTED SIGN	
LIGHT POLE	
H-FRAME POWER POLE	
TELEPHONE PEDESTAL	
FENCE	
CHAIN LINK	-V-
WOVEN WIRE	-X-
GATE POST	
BENCHMARK	



NOT TO SCALE

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

LENGTH OF PROJECT

BEGINNING OF PROJECT	LM 0.966 EB
END OF PROJECT	LM 5.053 EB
APPARENT LENGTH	21,420.96 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGE A8445	LM 3.970 -4.048 EB
CONCRETE PAVEMENT	LM 4.782 - 5.053 EB
	0.349 MILES

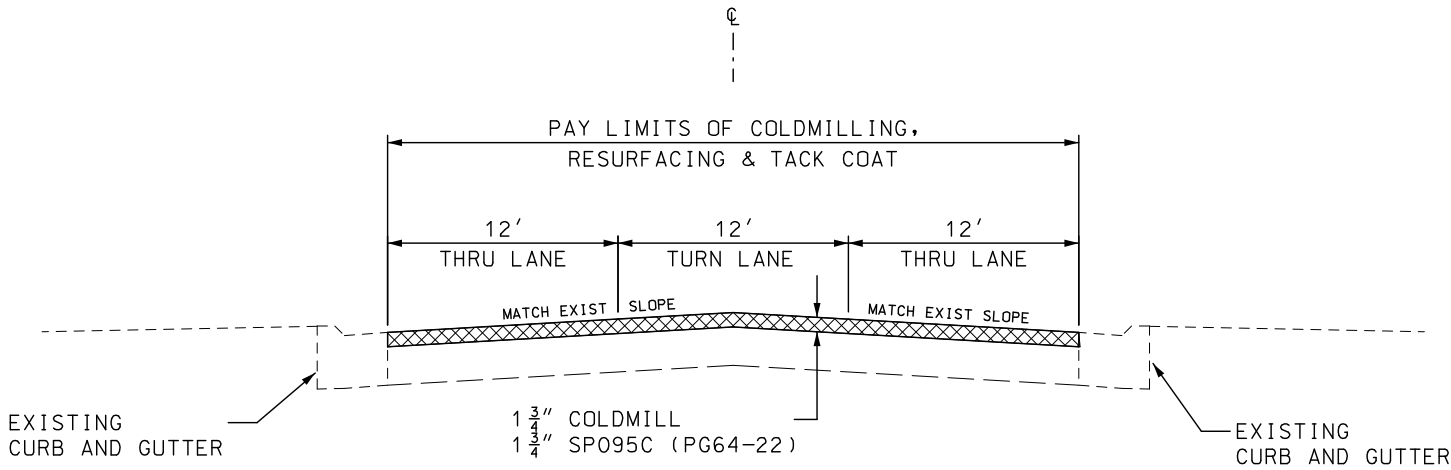
TOTAL CORRECTIONS	1842.72 FEET
NET LENGTH OF PROJECT	19,578.24 FEET
STATE LENGTH	3.708 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	1.3 ACRES

NOTE: NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

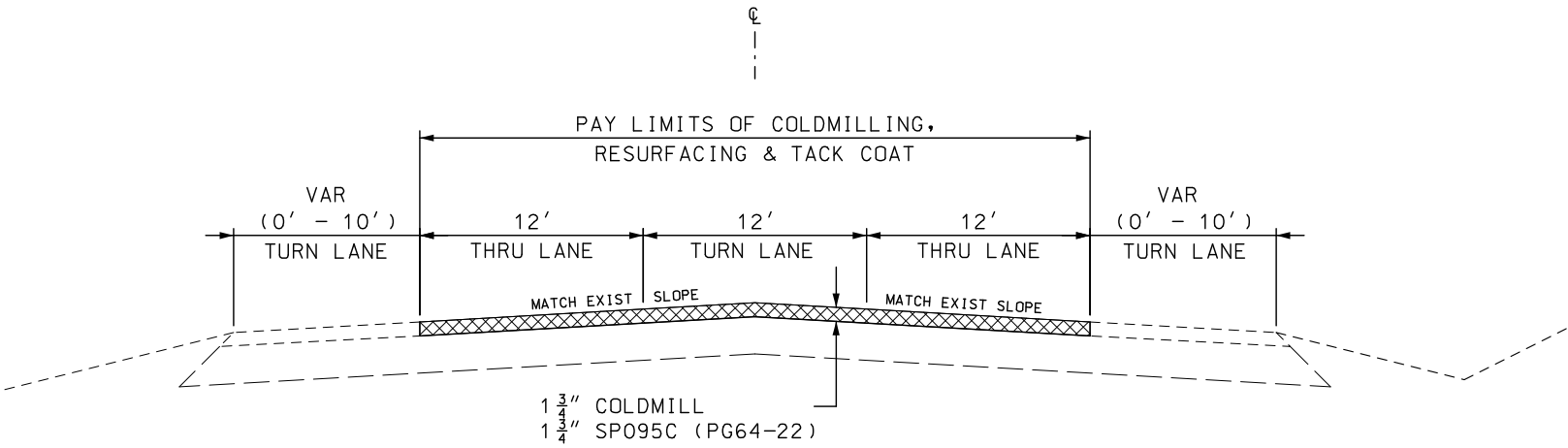
SURFACE PLACEMENT - ONE PASS PER LANE

NO S.E. CORRECTION

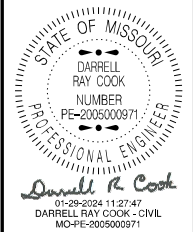
ASPHALT FACTORS		
	COMBINED FACTOR	% AC
SP095B (PG64-22)	1.970 TONS/CY	5.5
TACK COAT		
MILLING		0.10 GAL/SY
IRREGULARITIES: 75 TONS/MI		



BUSINESS 60
LOG MILE 0.996 TO LOG MILE 1.693



BUSINESS 60
LOG MILE 1.693 TO LOG MILE 1.805



DATE PREPARED 1/26/2024	
ROUTE BU 60	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY LAWRENCE	
JOB NO. J7S3444	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

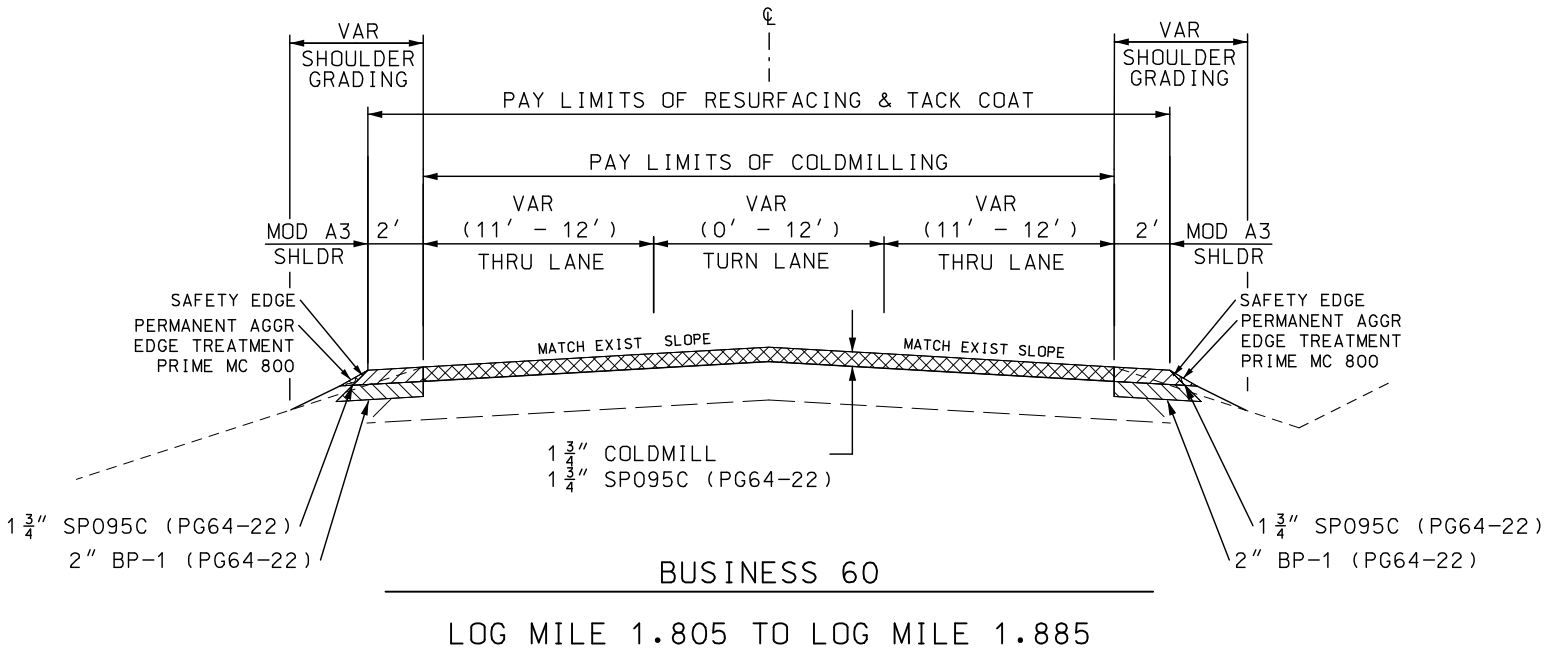
NOTES: AS APPROVED BY THE ENGINEER, THE 2' MODIFIED TYPE A3 SHOULDER MAY BE REDUCED TO 1' MINIMUM WIDTH IN SPECIFIC AREAS BASED ON EXISTING FIELD CONDITIONS. THE MODIFIED TYPE A3 SHOULDER SHALL NOT BE BUILT IN AREAS WHERE THE EXISTING SLOPE, GUARDRAIL, OR CULVERT HEADWALLS DO NOT PERMIT. SEE JOB SPECIAL PROVISIONS.

IF THE CONTRACTOR ELECTS TO USE CONCRETE FOR THE SHOULDERS, THE QUANTITY OF ASPHALT AND TACK SHALL BE ADJUSTED IN ACCORDANCE WITH THE JOB SPECIAL PROVISION-OPTIONAL SHOULDER.

SHOULDER GRADING CONFINED TO FORESLOPE.

SURFACE PLACEMENT – ONE PASS PER LANE

NO S.E. CORRECTION



ASPHALT FACTORS		
	COMBINED FACTOR	% AC
SP095 (PG64-22)	1.970 TONS/CY	5.5
TACK COAT		
MILLING	0.10 GAL/SY	
IRREGULARITIES: 75 TONS/MI		
ASPHALT FACTORS		
	COMBINED FACTOR	% AC
BP-2 (PG64-22)	1.985 TONS/CY	5.7
BP-1 (PG64-22)	1.985 TONS/CY	5.7
TACK COAT		
OVERLAY	0.08 GAL/SY	
PRIME LIQUID ASPHALT MC 800		
PERMANENT AGGREGATE	0.25 GAL/SY	
EDGE TREATMENT		
IRREGULARITIES: 75 TONS/MI		

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-29-2024 11:28:00

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

STATE

BU 60

MO

DISTRICT

SHEET NO.

SW

2

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION									
DATE									

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

NOTES: AS APPROVED BY THE ENGINEER, THE 2' MODIFIED TYPE A3 SHOULDER MAY BE REDUCED TO 1' MINIMUM WIDTH IN SPECIFIC AREAS BASED ON EXISTING FIELD CONDITIONS. THE MODIFIED TYPE A3 SHOULDER SHALL NOT BE BUILT IN AREAS WHERE THE EXISTING SLOPE, GUARDRAIL, OR CULVERT HEADWALLS DO NOT PERMIT. SEE JOB SPECIAL PROVISIONS.

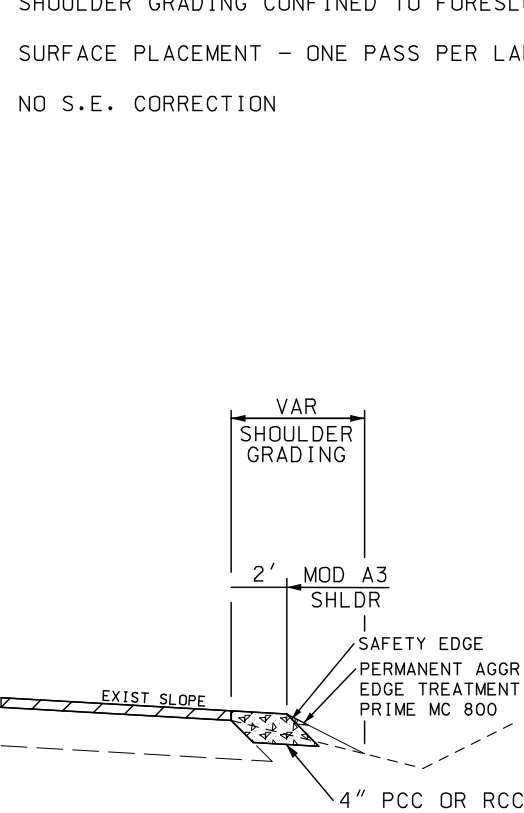
IF THE CONTRACTOR ELECTS TO USE CONCRETE FOR THE SHOULDERS, THE QUANTITY OF ASPHALT AND TACK SHALL BE ADJUSTED IN ACCORDANCE WITH THE JOB SPECIAL PROVISION-OPTIONAL SHOULDER.

SHOULDER GRADING CONFINED TO FORESLOPE.

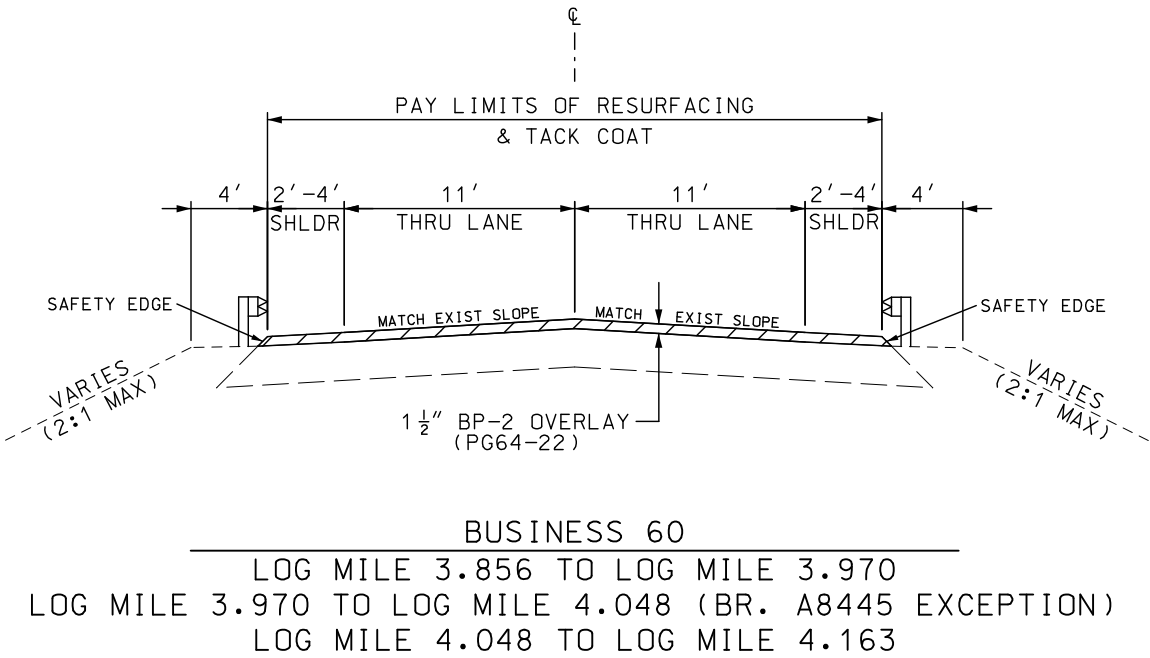
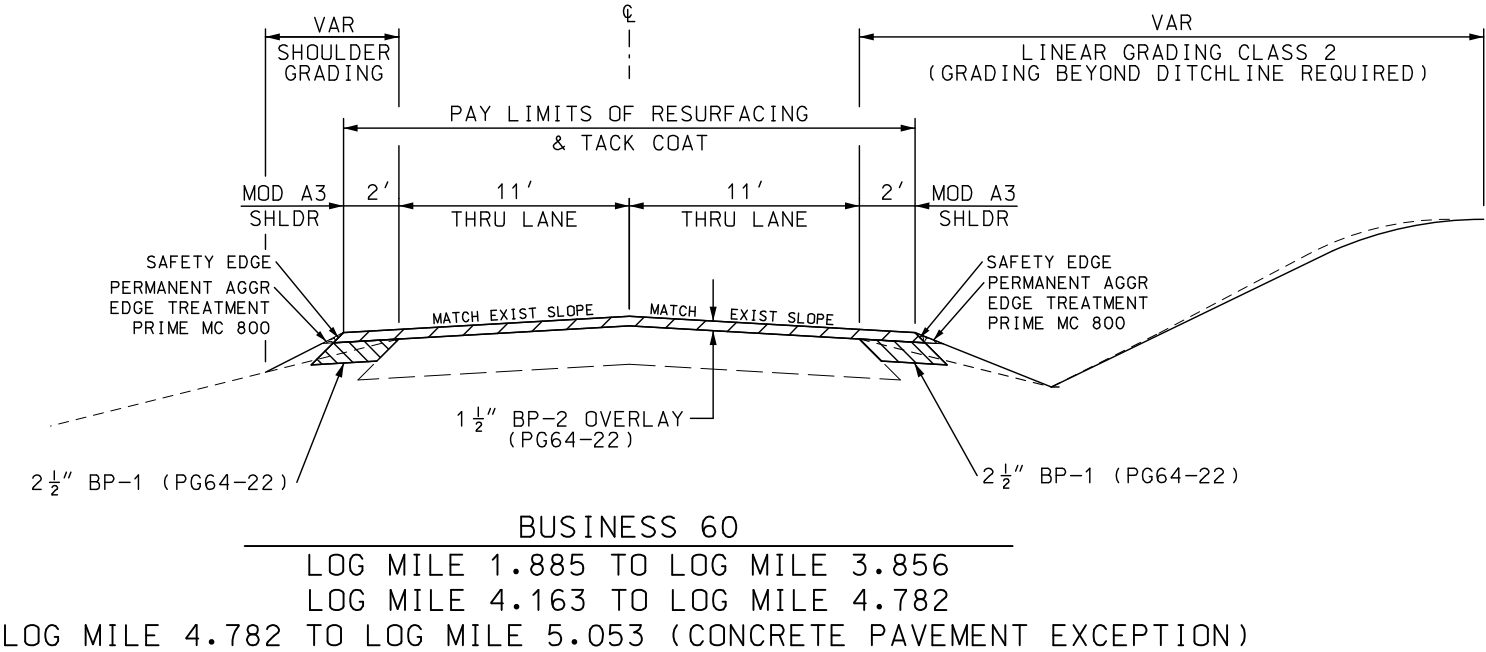
SURFACE PLACEMENT – ONE PASS PER LANE

NO S.E. CORRECTION

ASPHALT FACTORS		
	<u>COMBINED FACTOR</u>	<u>% AC</u>
BP-2 (PG64-22)	1.985 TONS/CY	5.7
BP-1 (PG64-22)	1.985 TONS/CY	5.7
TACK COAT		
OVERLAY	0.08 GAL/SY	
PRIME LIQUID ASPHALT MC 800		
PERMANENT AGGREGATE	0.25 GAL/SY	
EDGE TREATMENT		
IRREGULARITIES: 75 TONS/MI		



CONCRETE SHOULDERS



* AT LOCATIONS SHOWN ON THE QUANTITY SHEETS. ALL DEVICES WILL BE INSTALLED AS NECESSARY AT THE DISCRETION OF THE ENGINEER.

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-29-2024 11:28:33

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

BU 60

STATE

MO

DISTRICT

SW

SHEET NO.

2

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

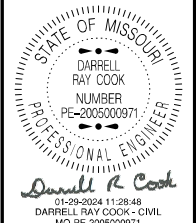
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

REVISÉD: 3/7/2023



DATE PREPARED

1 / 26 / 2024

ROUTE	STATE
BU 60	MO

DISTRICT	SHEET NO.
SW	2

COUNTY
LAWRENCE

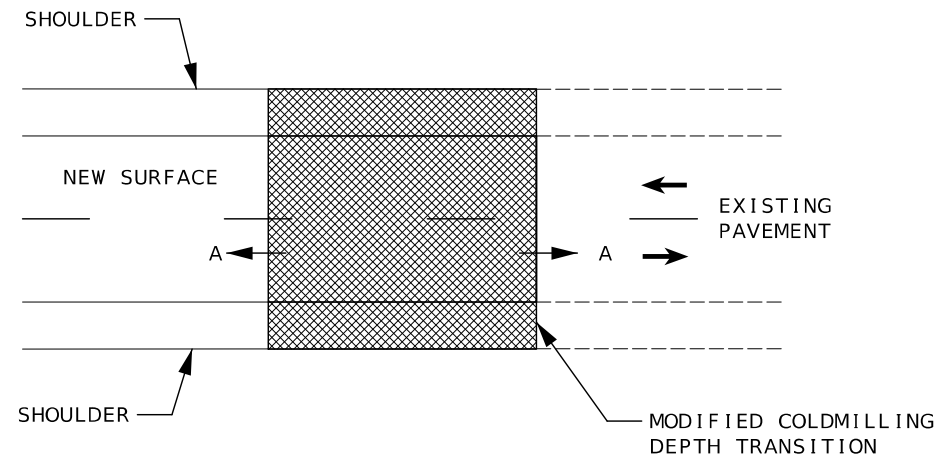
LAWRENCE
JOB NO.

JOB NO.
1753444

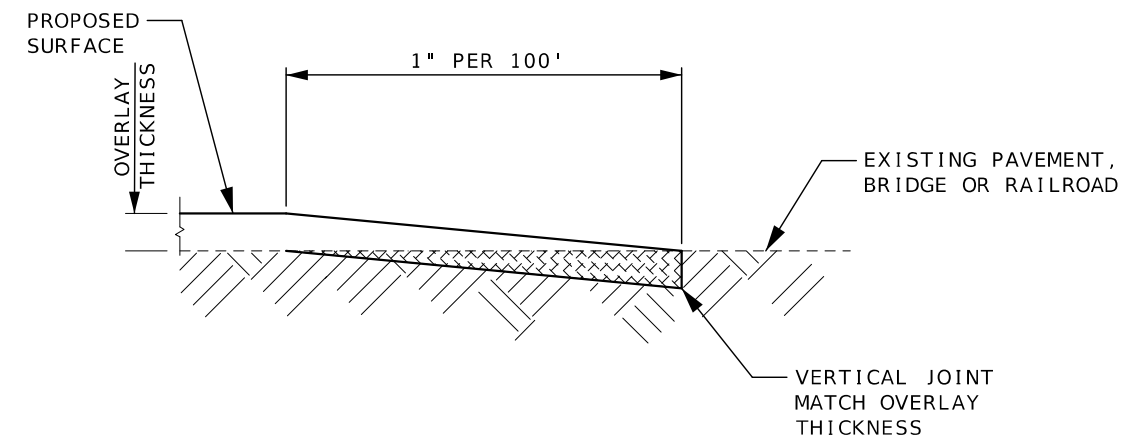
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MAINLINE, BRIDGE, AND RAILROAD PLAN



SECTION A-A

TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT
PROJECT BEGINNING, END, BRIDGE, OR RAILROAD

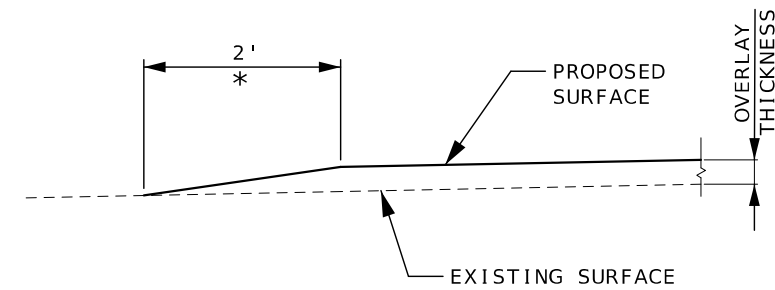
NOTE: MILL EXISTING CONCRETE 1" MAXIMUM.

PROJECT NO.
BRIDGE NO.

[illegible]

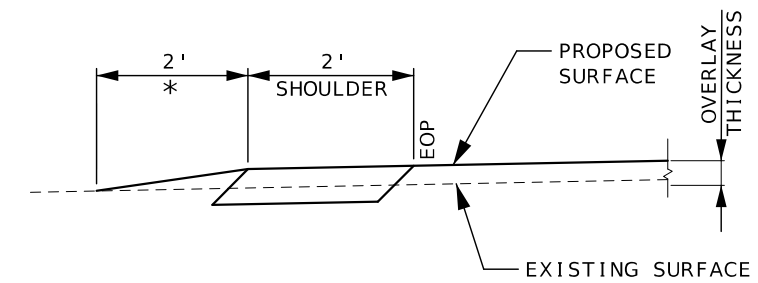
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TYPICAL ENTRANCE - NO SHOULDER
(FIELD, PRIVATE OR COUNTY ROAD)
*TAPER AT 1:1 FOR FIELD ENTRANCE

6 TONS CALCULATED PER COUNTY ROAD.



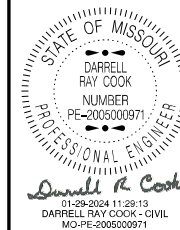
The diagram illustrates a cross-section of a road surface. A dashed line represents the 'EXISTING SURFACE'. A solid line above it represents the 'PROPOSED SURFACE'. The vertical distance between these two lines is labeled 'OVERLAY THICKNESS'. A horizontal dimension of '2'' is shown for the initial slope of the proposed surface, with an asterisk (*) below it. The 'EOP' (End of Pavement) is marked at the end of this initial slope. A break symbol (two parallel diagonal lines) is shown on the proposed surface line, indicating a continuation of the surface beyond the shown section.

TYPICAL ENTRANCE - EXIST/NEW SHOULDER
(FIELD, PRIVATE OR COUNTY ROAD)
*TAPER AT 1:1 FOR FIELD ENTRANCE

6 TONS CALCULATED PER COUNTY ROAD.

REVISÉD: 3/7/2023

NOTE: MAILBOX TURNOUT QUANTITIES BASED ON 2' WIDTH AND
15' LENGTH. ADD 2' IN LENGTH PER ADDITIONAL
MAILBOX AT SAME LOCATION, AS APPROVED BY THE ENGINEER.



DATE PREPARED

ROUTE	STATE
BU 60	MO

DISTRICT	SHEET NO.
SW	2

COUNTY

JOB NO.

CONTRACT ID

PROJECT NO.

BRIDGE NO.

[illegible]

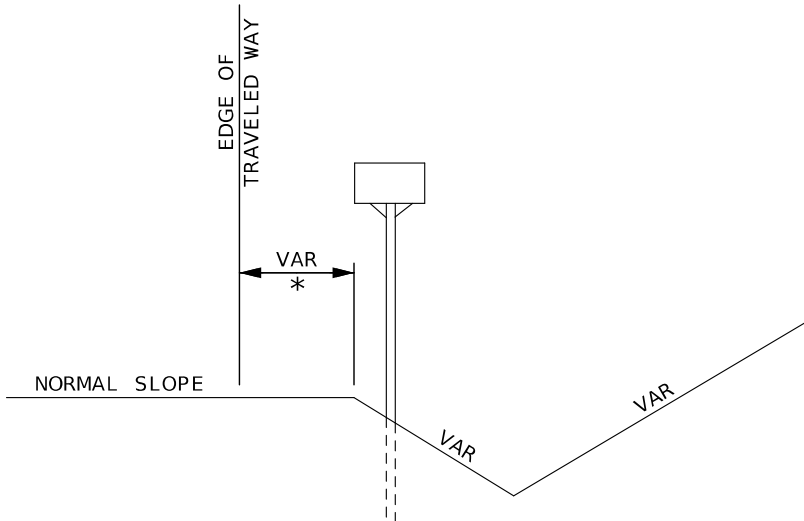
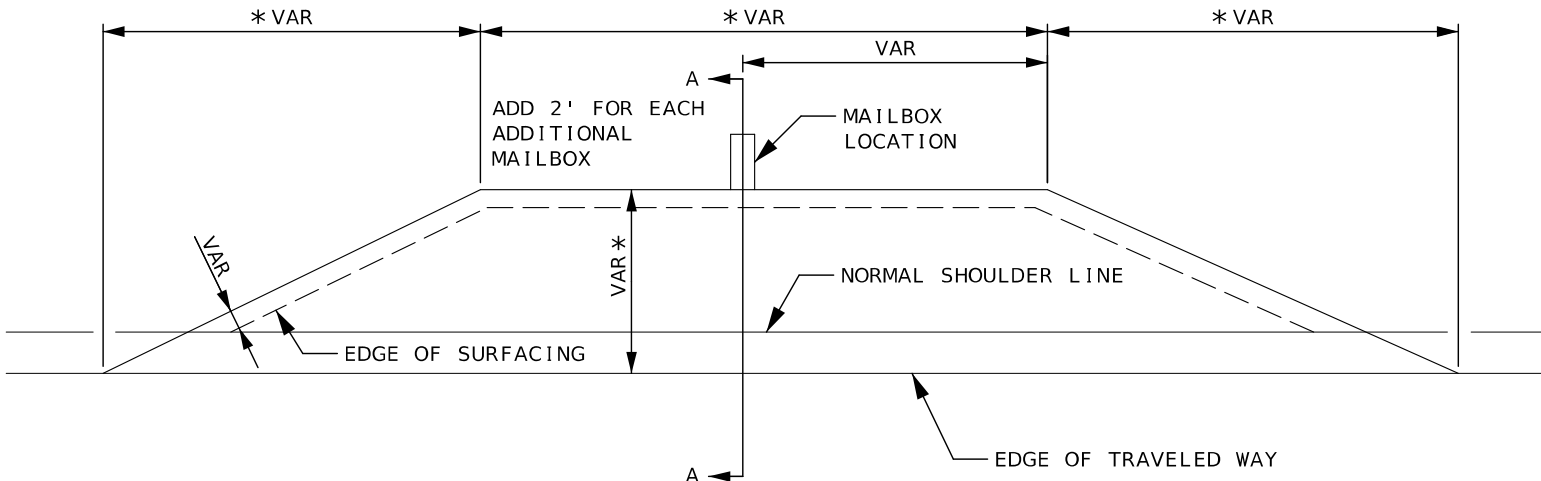
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



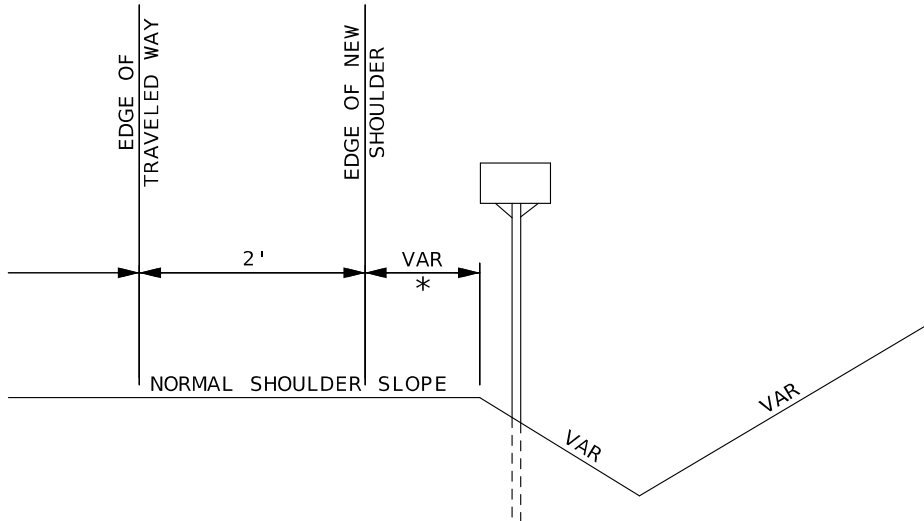
105 WEST CAPITAL
JEFFERSON CITY, MO 65102

TYPICAL MAILBOX TURNOUT

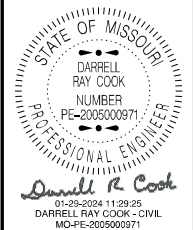
* AS APPROVED BY THE ENGINEER



SECTION A-A
NO SHOULDER



SECTION A-A
SHOULDER



DATE PREPARED 1/26/2024	
ROUTE BU 60	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY LAWRENCE	
JOB NO. J7S3444	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

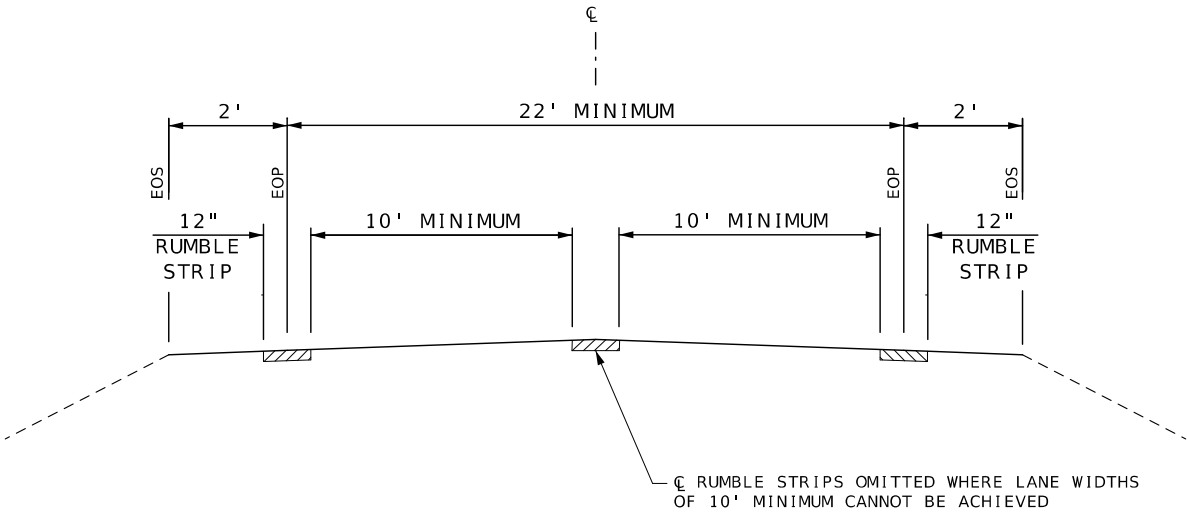
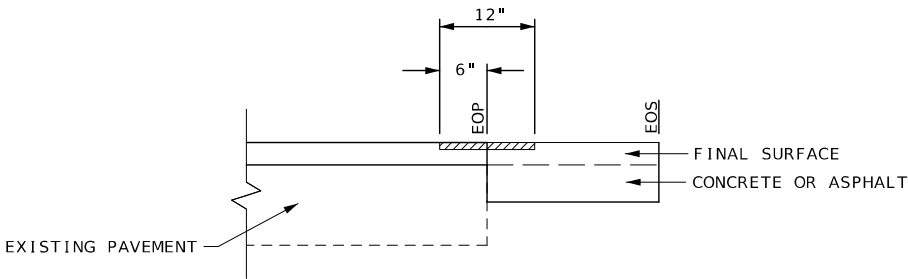


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

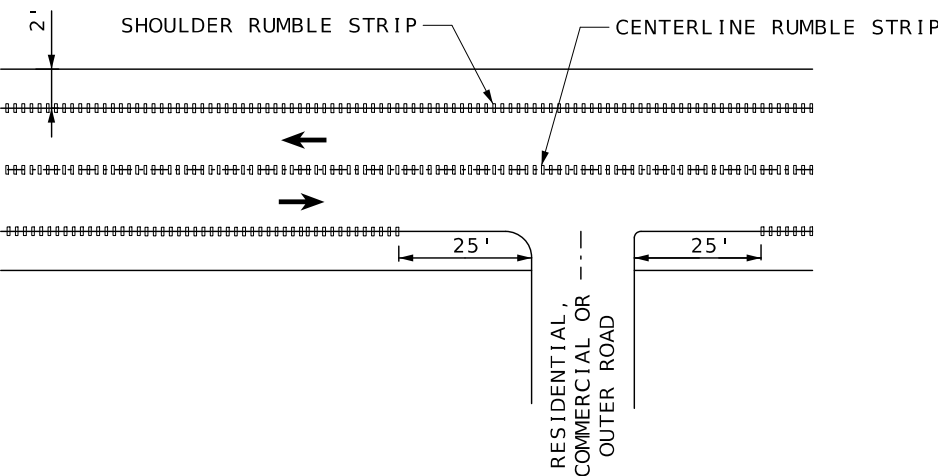
RUMBLE STRIPS FOR 2' MODIFIED A3 SHOULDERS

AS APPROVED BY THE ENGINEER, A 6" MINI RUMBLE STRIP
MAY BE USED WHERE A 12" RUMBLE STRIP DOES NOT FIT.

RUMBLE STRIP DETAILS



INTERSECTION RUMBLE STRIP LAYOUT



BITUMINOUS PAVEMENT MIXTURE BP-2 (PG64-22)									
ROUTE	LOG MILE	TO	LOG MILE	NET LENGTH	AVERAGE WIDTH	APPROACH AREA	OVERLAY 1.50"	TACK RATES	REMARKS
				LF	LF	SF	TONS	GAL	
BU 60	1.885	-	3.856	10406.9	22.0		2135.3	2035.1	*
BU 60	3.731	-	3.755	125.0		4095.0	19.8	36.4	ROUTE W (COLD MIX STATE ROUTE)
BU 60	3.856	-	3.970	601.9	30.0		168.4	160.5	OVERLAY MAINLINE & EXISTING SHOULDERS
BU 60	3.970	-	4.048	411.8	0.0		0.0	0.0	BRIDGE A8445
BU 60	4.048	-	4.163	607.2	30.0		169.9	161.9	OVERLAY MAINLINE & EXISTING SHOULDERS
BU 60	4.163	-	4.782	3268.3	22.0		670.6	639.1	*
2' SHOULDERS									
BU 60	1.885	-	3.856	10406.9	4.0		388.2	370.0	*
BU 60	3.856	-	4.163	1621.0	0.0		0.0	0.0	EXISTING SHOULDERS & BRIDGE A8445
BU 60	4.163	-	4.782	3268.3	4.0		121.9	116.2	*
		-							
ENTRANCES AND IRREGULARITIES									
BU 60	1.885	-	4.782	15296.2			217.3		IRREGULARITIES 75 TONS/MILE
BU 60	1.885	-	4.782				34.4	47.3	ENTRANCES AND MAILBOXES
SUBTOTALS							3925.8	3566.5	* SAFETY EDGE INCLUDED IN QUANTITY
USE							3925.8	3567	* FOR TACK OVERALL SEE SP125C
NOTE: ANY AND ALL IRREGULARITIES MAY BE UNDERRUN AND NO ADJUSTMENT TO ANY UNIT BID COST WILL BE MADE.									

BITUMINOUS PAVEMENT MIXTURE BP-1 (PG64-22)									
ROUTE	LOG MILE	TO	LOG MILE	NET LENGTH	AVERAGE WIDTH	APPROACH AREA	BP-1 2.50"	TACK RATES	REMARKS
				LF	LF	SF	TONS	GAL	
BU 60	1.805	-	1.885	422.4	4.0		21.1	15.0	2" DEPTH (SEE TYPICAL SECTIONS SHEET 2)
BU 60	1.885	-	3.856	10406.9	4.0		650.3	370.0	STOP AT EXISTING SHOULDERS BEFORE BRIDGE A8445
BU 60	4.163	-	4.782	3268.3	4.0		204.2	116.2	BRIDGE A8445
		-		0.0			0.0	0.0	START PAST EXISITING SHOULDERS AFTER BRIDGE A8445
		-							
ENTRANCES AND IRREGULARITIES									
BU 60	1.805		4.782	15718.6			223.3		IRREGULARITIES 75 TONS/MILE
SUBTOTALS							1098.9	501.2	* SAFETY EDGE INCLUDED IN QUANTITY
USE							1098.9	501	* FOR TACK OVERALL SEE SP125C
NOTE: ANY AND ALL IRREGULARITIES MAY BE UNDERRUN AND NO ADJUSTMENT TO ANY UNIT BID COST WILL BE MADE.									

ASPHALTIC CONCRETE MIXTURE SP095C (PG64-22)									
ROUTE	LOG MILE	TO	LOG MILE	NET LENGTH	AVERAGE WIDTH	APPROACH AREA	SP095C 1.75"	TACK RATES	REMARKS
				LF	LF	SF	TONS	GAL	
BU 60	0.996		1.805	4271.5	36.0		1668.9	1708.6	*
BU 60	1.805	-	1.885	422.4	32.0		146.7	150.2	3-LANE TO 2-LANE TRANSITION
2' SHOULDERS									
BU 60	1.805	-	1.885	422.4	4.0		18.3	18.8	3-LANE TO 2-LANE TRANSITION
		-							
ENTRANCES AND IRREGULARITIES									
BU 60	0.996		1.885	4693.9			66.7		IRREGULARITIES 75 TONS/MILE
SUBTOTALS							1900.6	1877.6	* SAFETY EDGE INCLUDED IN QUANTITY
USE							1900.6	1878	
NOTE: ANY AND ALL IRREGULARITIES MAY BE UNDERRUN AND NO ADJUSTMENT TO ANY UNIT BID COST WILL BE MADE.									

MOBILIZATION FOR SEEDING
1 EACH
GRAVEL (A) OR CRUSHED STONE (B)
148 TONS
CONTRACTOR FURNISHED SURVEYING & STAKING
1 LUMP SUM
MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED RADAR DETECTION SYSTEM, 4 SENSOR
3 EACH

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-28-2024 11:28:52

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

BU 60

STATE

MO

DISTRICT

SW

SHEET NO.

3

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SEEDING - COOL SEASON MIXTURE						
ROUTE	LOG MILE	TO	LOG MILE	LENGTH MILES	ACRES	REMARKS
BU 60	1.805	-	3.856	2.051	0.99	BEFORE BR. A8445
BU 60	4.163	-	4.782	0.619	0.30	AFTER BR. A8445
TOTALS					1.29	
USE					1.3	

MULCHING						
ROUTE	LOG MILE	TO	LOG MILE	LENGTH MILES	ACRES	REMARKS
BU 60	1.805	-	3.856	2.051	0.99	BEFORE BR. A8445
BU 60	4.163	-	4.782	0.619	0.30	AFTER BR. A8445
TOTALS					1.29	
USE					1.3	

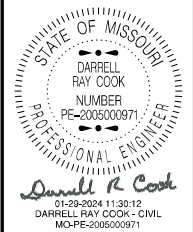
MISC. SHOULDER GRADING				
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	MISC. SHOULDER GRADING PER SHOULDER ROADBED (STA)	REMARKS
1.805	3.856	10829.3	108.29	EB SHOULDERS
4.163	4.782	3268.3	32.68	EB SHOULDERS
1.805	3.856	10829.3	108.29	WB SHOULDERS
4.163	4.782	3268.3	32.68	WB SHOULDERS
TOTAL			281.94	
USE			281.9	

BITUMINOUS RUMBLE STRIPS				
BEGIN CONT. LOG	END CONT. LOG	BITUMINOUS SHLD. RUMBLE STRIP (STA)	BITUMINOUS CL RUMBLE STRIP (STA)	REMARKS
1.916	2.072	8.3	8.3	BEGIN AT 55 MPH SECTION
2.072	2.445	0	19.7	SKIP SHOULDER RUMBLES
2.445	3.970	80.6	80.6	
3.970	4.048	0	0	BR. A8445 EXCEPTION
4.048	4.782	38.8	38.8	END AT EXISTING CONCRETE PAVEMENT
TOTALS		127.7	147.4	
USE		127.7	147.4	

TEMPORARY EROSION CONTROL			
ROCK DITCH CHECK LOG MILE	QUANTITY EA	QUANTITY FT	REMARKS
1.805	2	40	BEGINNING OF 2' SHOULDER SECTION
1.911	4	80	CULVERT
2.132	4	80	CULVERT
2.460	4	80	CULVERT
2.638	4	80	CULVERT
2.771	4	80	CULVERT
3.251	4	80	CULVERT
3.435	4	80	CULVERT
3.786	4	80	CULVERT
3.856	2	40	BR A8445
4.163	2	40	BR A8445
4.782	2	40	END OF PROJECT
TOTAL		800	
USE		800	OVERALL TOTAL ROCK DITCH CHECKS
CURB INLET CHECK LOG MILE		QUANTITY EA	REMARKS
0.996		4	BU 60 & 13TH ST
1.083		2	BU 60 & 14TH ST
1.137		2	BU 60 & PLYMOUTH LANDING APT
1.209		2	BU 60 & 16TH ST
1.405		7	BU 60 & DAVID SIPPY DR
1.488		4	BU 60 & BRIDLE LN
1.573		1	PRICE CUTTER ENTRANCE
1.589		1	
1.612		2	OLD AIRPORT DR
1.618		4	
1.692		2	END OF CURB & GUTTER SECTION
			*1 CURB INLET CHECK PER INLET
TOTAL		31	
USE		31	OVERALL TOTAL CURB INLET CHECKS
SILT FENCE LOG MILE		LF	REMARKS
0.996 - 5.053		2100	PLACE AS DIRECTED BY ENGINEER
TOTAL		2100	
USE		2100	OVERALL TOTAL SILT FENCE
*PLACED AS DIRECTED BY ENGINEER			

MODIFIED COLDMILLING (DEPTH TRANSITIONS)						
ROUTE	LOG MILE	TO	LOG MILE	NET LENGTH LF	WIDTH LF	AREA SY
BU 60	1.885	-	1.918	175.0	26.0	505.6
BU 60	3.946	-	3.970	125.0	30.0	416.7
BU 60	4.048	-	4.072	125.0	30.0	416.7
BU 60	4.758	-	4.782	125.0	26.0	361.1
TOTAL						1700.1
USE						1701

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACE (3 IN. THICK OR LESS)						
ROUTE	LOG MILE	TO	LOG MILE	NET LENGTH LF	WIDTH LF	AREA SY
BU 60	0.996	-	1.805	4271.5	36.0	17086.0
BU 60	1.805	-	1.885	422.4	22 - 36	1510.0
TOTAL						18596.0
USE						18596



DATE PREPARED 1/26/2024	
ROUTE BU 60	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY LAWRENCE	
JOB NO. J7S3444	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION									

DATE									

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING												
ROUTE	LOG MILE	TO	LOG MILE	LOCATION	WATERBORNE PAINT, TYPE P BEADS			PREFORMED THERMOPLASTIC MARKING				REMARKS
					4" SOLID WHITE	4" INT YELLOW	4" SOLID YELLOW	24" WHITE	24" YELLOW	LEFT ARROW	30" MIDBLOCK	
					LF	LF	LF	LF	LF	EA	EA	
BU 60	1.005			WB				12				BU 60 LT TURN LANE STOP LINE AT 13TH ST INTERSECTION
BU 60	1.008			WB				12				BU 60 THRU LANE STOP LINE AT 13TH ST INTERSECTION
BU 60	1.019			WB						1		BU 60 LT TURN LANE AT 13 ST INTERSECTION
BU 60	1.060			WB						1		BU 60 LT TURN LANE AT 13 ST INTERSECTION
BU 60	1.175			EB						1		BU 60 SHARED LT TURN LANE
BU 60	1.179			WB						1		BU 60 SHARED LT TURN LANE
BU 60	1.270			CROSSWALK							9	BU 60 CROSSWALK AT 17TH ST (MONETT HIGH SCHOOL)
BU 60	1.373			EB						1		BU 60 SHARED LT TURN LANE
BU 60	1.377			WB						1		BU 60 SHARED LT TURN LANE
BU 60	1.448			EB						1		BU 60 LT TURN LANE AT BRIDGE LN INTERSECTION
BU 60	1.469			EB				12				BU 60 LT TURN LANE STOP LINE AT BRIDLE LN INTERSECTION
BU 60	1.473			EB				12				BU 60 THRU LANE STOP LINE AT BRIDLE LN INTERSECTION
BU 60	1.497			WB				12				BU 60 THRU LANE STOP LINE AT BRIDLE LN INTERSECTION
BU 60	1.503			WB				12				BU 60 LT TURN LANE STOP LINE AT BRIDLE LN INTERSECTION
BU 60	1.526			WB						1		BU 60 LT TURN LANE AT BRIDGE LN INTERSECTION
BU 60	1.611			EB						1		BU 60 SHARED LT TURN LANE
BU 60	1.615			WB						1		BU 60 SHARED LT TURN LANE
BU 60	1.703			EB						1		BU 60 LT TURN LANE AT CHAPEL DR INTERSECTION
BU 60	1.727			EB				12				BU 60 LT TURN LANE STOP LINE AT CHAPEL DR INTERSECTION
BU 60	1.734			EB				12				BU 60 THRU LANE STOP LINE AT CHAPEL DR INTERSECTION
BU 60	1.752			WB				12				BU 60 THRU LANE STOP LINE AT CHAPEL DR INTERSECTION
BU 60	1.756			WB				12				BU 60 LT TURN LANE STOP LINE AT CHAPEL DR INTERSECTION
BU 60	1.787			WB						1		BU 60 LT TURN LANE AT CHAPEL DR INTERSECTION
BU 60	1.806			WB					80			BU 60 LANE DROP PAVEMENT MARKING AT CHAPEL DR INTERSECTION
BU 60	1.008		1.095	EB			920.0					DOUBLE YELLOW
BU 60	1.095		1.413	EB		420.0	1680.0					SHARED LEFT TURN LANE
BU 60	1.095		1.413	WB		420.0	1680.0					SHARED LEFT TURN LANE
BU 60	1.413		1.473	WB			630.0					DOUBLE YELLOW
BU 60	1.473		1.498				260.0					BUS 60 & BRIDLE LN INTERSECTION
BU 60	1.498		1.573	EB			790.0					DOUBLE YELLOW
BU 60	1.553		1.672	WB		160.0	630.0					SHARED LEFT TURN LANE
BU 60	1.573		1.672	EB		130.0	520.0					SHARED LEFT TURN LANE
BU 60	1.672		1.727	WB			580.0					DOUBLE YELLOW
BU 60	1.727		1.756				310.0					BUS 60 & CHAPEL DR INTERSECTION
BU 60	1.756		1.972	EB			2280.0					DOUBLE YELLOW
BU 60	1.813		1.885	WB			760.0					DOUBLE YELLOW BUS 60 LT TURN LANE DROP
BU 60	1.972		2.122	EB		200.0	790.0					
BU 60	2.122		2.182	EB		80.0	320.0					
BU 60	2.182		2.333	WB		200.0	800.0					
BU 60	2.333		2.571	EB			2510.0					DOUBLE YELLOW
BU 60	2.571		2.771	EB		260.0	1060.0					
BU 60	2.771		2.932	WB		210.0	850.0					
BU 60	2.932		3.609	EB			7150.0					DOUBLE YELLOW
BU 60	3.609		3.755	EB		190.0	770.0					
BU 60	3.755		3.814	EB		80.0	310.0					
BU 60	3.814		4.233	EB			4420.0					DOUBLE YELLOW
BU 60	4.233		4.372	EB		180.0	730.0					
BU 60	4.372		4.512	WB		180.0	740.0					
BU 60	4.512		4.671	EB		210.0	840.0					
BU 60	4.671		4.782	EB			1170.0					DOUBLE YELLOW
BU 60	1.005		1.062	WB	300.0							BU 60 THROUGH LANE INNER LINE AT 13TH ST INTERSECTION
BU 60	1.446		1.473	EB	140.0							BU 60 THRU LANE INNER LINE AT BRIDLE LN INTERSECTION
BU 60	1.497		1.528	WB	160.0							BU 60 THRU LANE INNER LINE AT BRIDLE LN INTERSECTION
BU 60	1.693		1.734	EB	220.0							BU 60 & CHAPEL DR INTERSECTION RT TURN LANE EDGE LINES
BU 60	1.693		1.734	WB	220.0							BU 60 & CHAPEL DR INTERSECTION RT TURN LANE EDGE LINES
BU 60	1.702		1.734	EB	170.0							BU 60 THRU LANE INNER LINE AT CHAPEL DR INTERSECTION
BU 60	1.721		1.734	EB	70.0							BU 60 THRU LANE OUTER LINE AT CHAPEL DR INTERSECTION
BU 60	1.752		1.805	EB	280.0							BU 60 & CHAPEL DR INTERSECTION RT TURN LANE EDGE LINES
BU 60	1.752		1.805	WB	280.0							BU 60 & CHAPEL DR INTERSECTION RT TURN LANE EDGE LINES
BU 60	1.752		1.788	WB	190.0							BU 60 THRU LANE INNER LINE AT CHAPEL DR INTERSECTION
BU 60	1.752		1.773	WB	110.0							BU 60 THRU LANE OUTER LINE AT CHAPEL DR INTERSECTION
BU 60	1.805		4.782	EB	15720.0							BU 60 EDGE LINES
BU 60	1.805		4.782	WB	15720.0							BU 60 EDGE LINES
TOTALS					33580	2920	33500	120	80	12	9	

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

02-20-2024 09:12:22

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

Darrell R. Cook

DATE PREPARED

2/20/2024

ROUTE

STATE

BU 60MO

DISTRICT

SHEET NO.

SW3

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

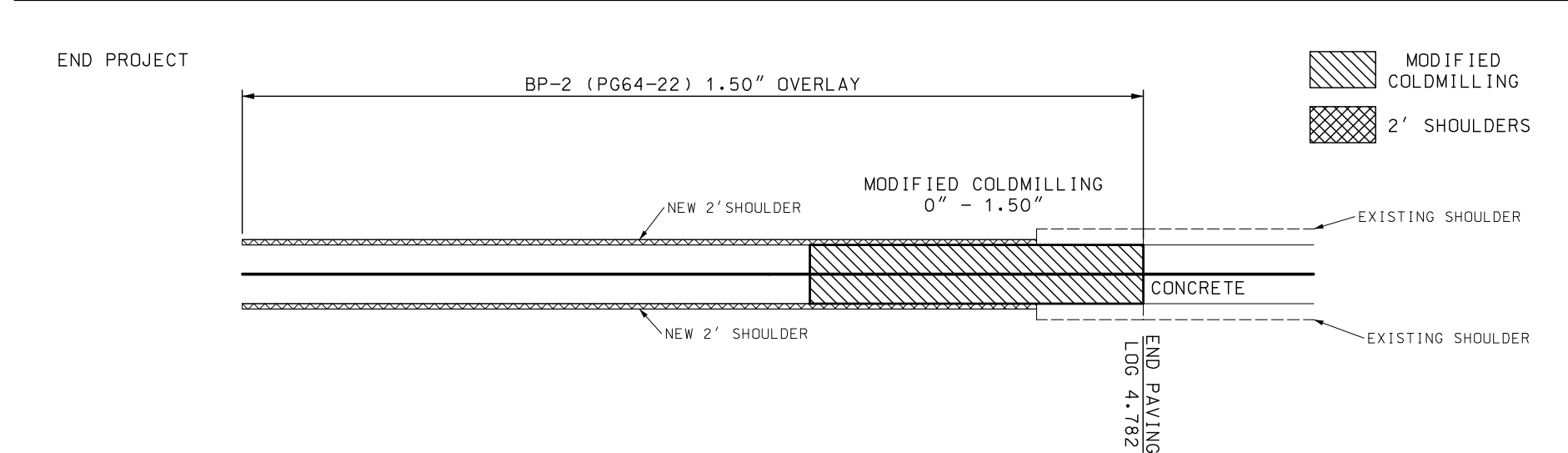
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.
GUIDE SIGNS							DESCRIPTION
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00					EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
GO20-1	60X24	10.00	2	20			ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16			END ROAD WORK
GO20-4	36X18	4.50	2	9			PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75					PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	6	9			PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	4	24			WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00					END DETOUR
MO4-9L	48X36	12.00					DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00					DETOUR (RIGHT ARROW)
MO4-9P	48X12	4.00					STREET NAME (PLAQUE)
MO4-10L	48X18	6.00					DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00					DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25					STOP
R1-2	48TRI	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50					ALL WAY (PLAQUE)
R2-1	36X48	12.00	4	48			SPEED LIMIT XX
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-8a	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	54X18	6.75					ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R9-9	24X12	2.00					SIDEWALK CLOSED
R9-11L	24X18	3.00					SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00					SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00					ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
CONST-5	48X36	12.00					POINT OF PRESENCE
CONST-5	96X48	32.00	2	64			POINT OF PRESENCE
CONST-7	48X24	8.00					RATE OUR WORK ZONE
CONST-7	72X36	18.00	2	36			RATE OUR WORK ZONE
CONST-8	48X36	12.00	2	24			WORK ZONE NO PHONE ZONE
616-10.05 CONSTRUCTION SIGNS				TOTAL 954			
616-10.10 RELOCATED SIGNS					TOTAL 0		

SUMMARY OF QUANTITIES
SHEET 4 OF 4

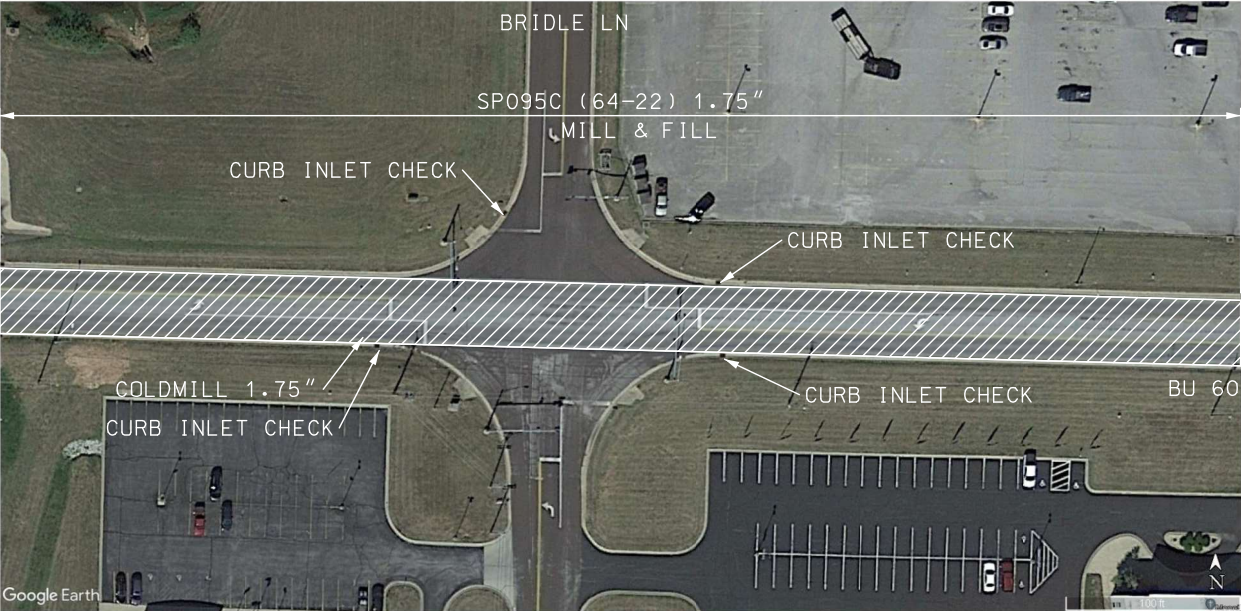
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SPECIAL SHEET
SHEET 1 OF 7

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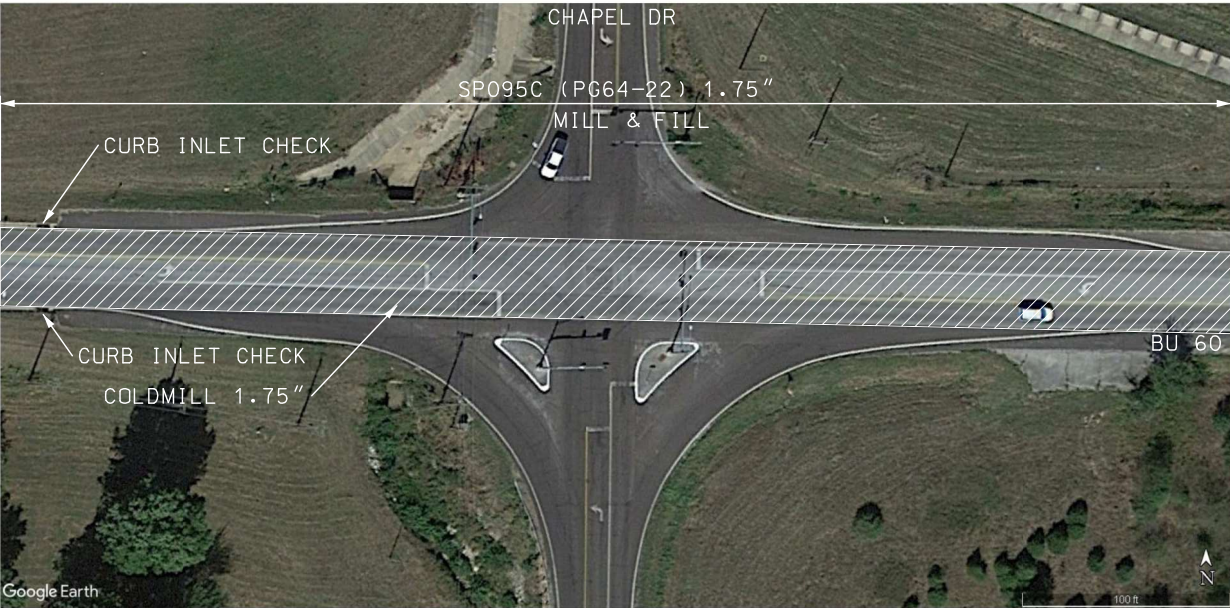
BRIDLE LN & BU 60
INTERSECTION



 MILL & FILL



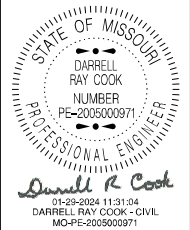
CHAPEL DR & BU 60
INTERSECTION



 MILL & FILL

NOT TO SCALE

SPECIAL SHEET
SHEET 2 OF 7



DATE PREPARED 1/26/2024	
ROUTE BU 60	STATE MO
DISTRICT SW	SHEET NO. 5
COUNTY LAWRENCE	
JOB NO. J7S3444	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

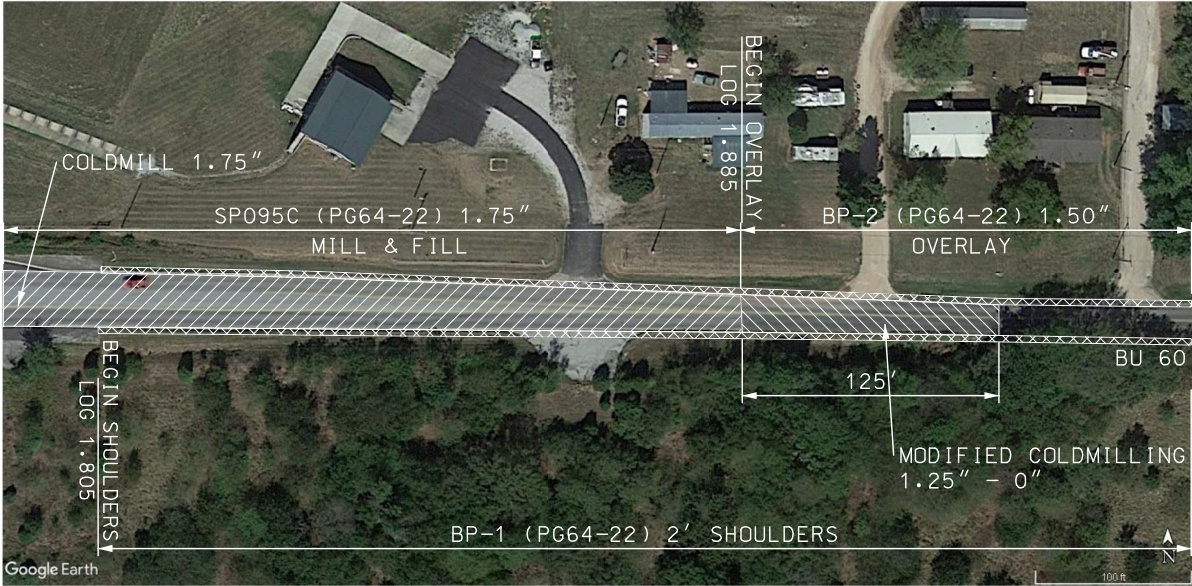
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

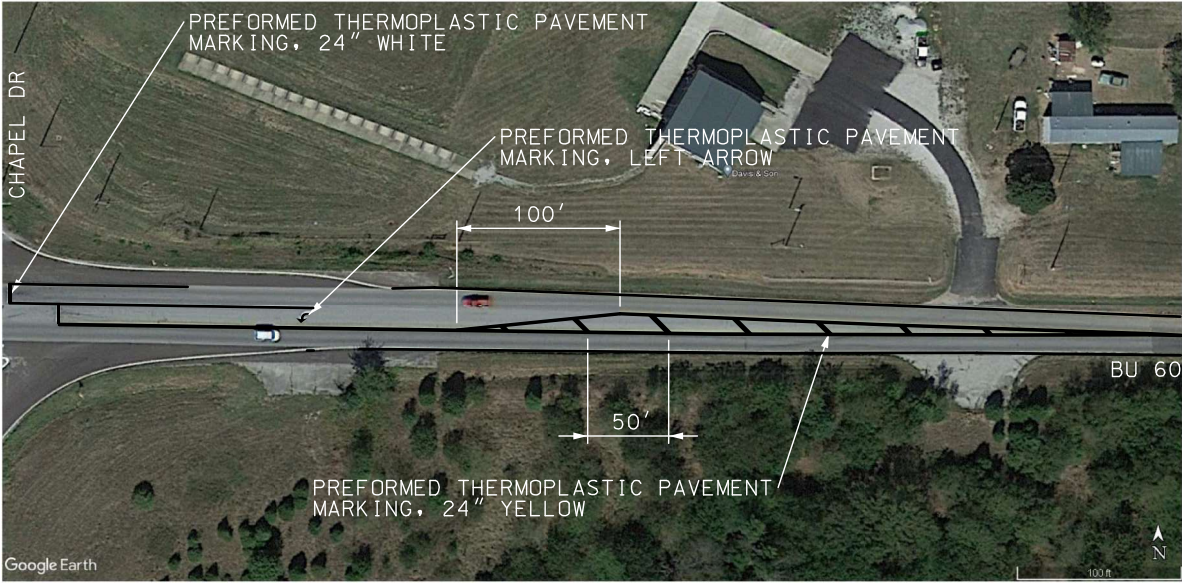
END OF 1.75" MILL AND FILL
BEGINNING OF 1.50" OVERLAY WITH 2' SHLDRS



- MILL & FILL
- MODIFIED COLDMILLING
- 2' SHOULDERS



BU 60 WB TURN LANE
LANE DROP MARKING
CHAPEL DR INT.



NOT TO SCALE

SPECIAL SHEET
SHEET 3 OF 7

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-26-2024 11:31:17

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

STATE

BU 60

MO

DISTRICT

SHEET NO.

SW

6

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MODOT

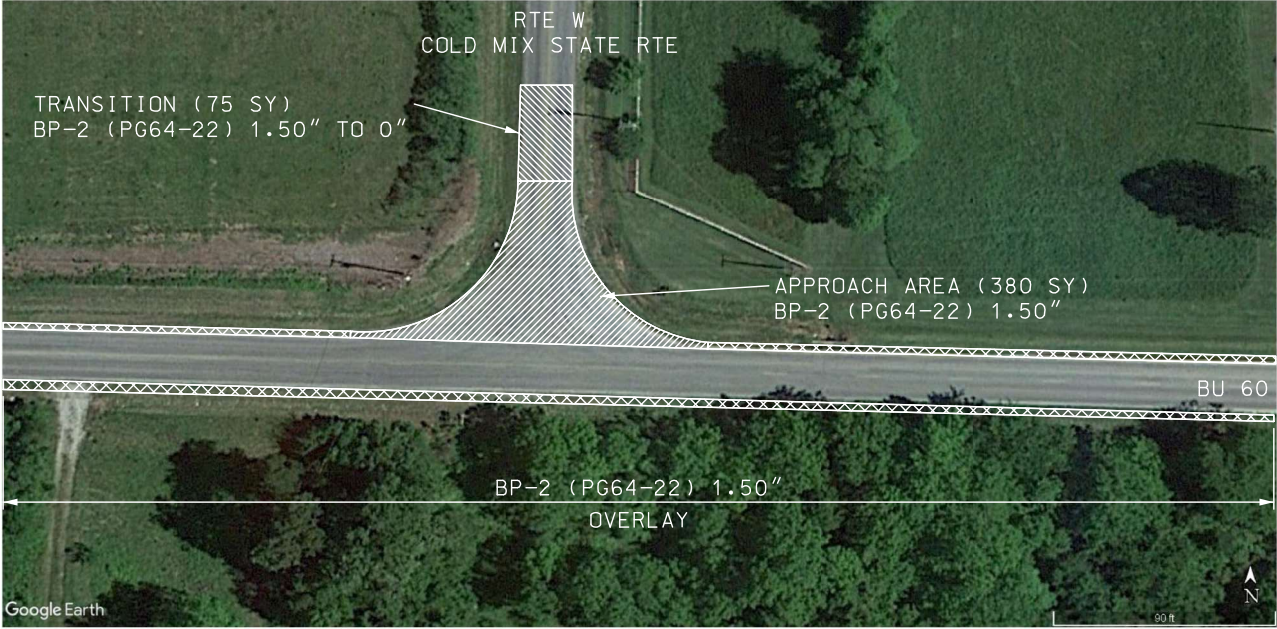
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)



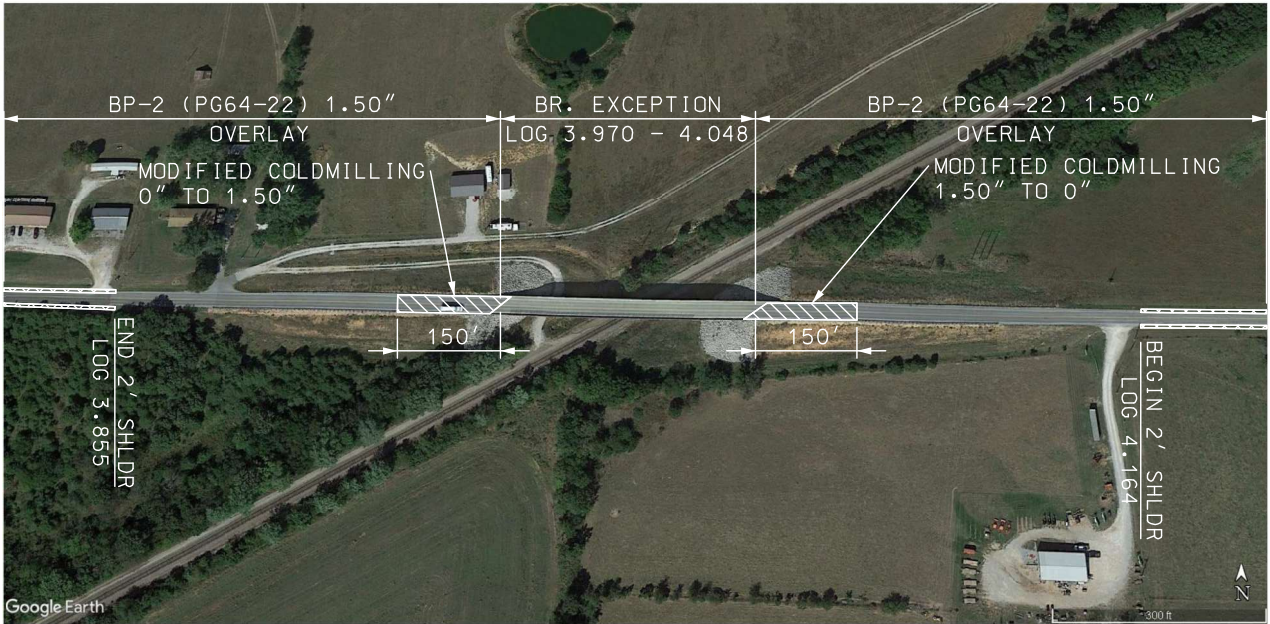
RTE W & BU 60
INTERSECTION



- APPROACH AREA
COLD MIX RTE
- TRANSITION
COLD MIX RTE
- 2' SHOULDERS



BRIDGE A8445
EXCEPTION



- MODIFIED
COLDMILLING
- 2' SHOULDERS

NOT TO SCALE

SPECIAL SHEET
SHEET 4 OF 7

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-26-2024 11:31:27

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

BU 60

STATE

MO

DISTRICT

SW

SHEET NO.

7

COUNTY

LAWRENCE

JOB NO.

J7S3444


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

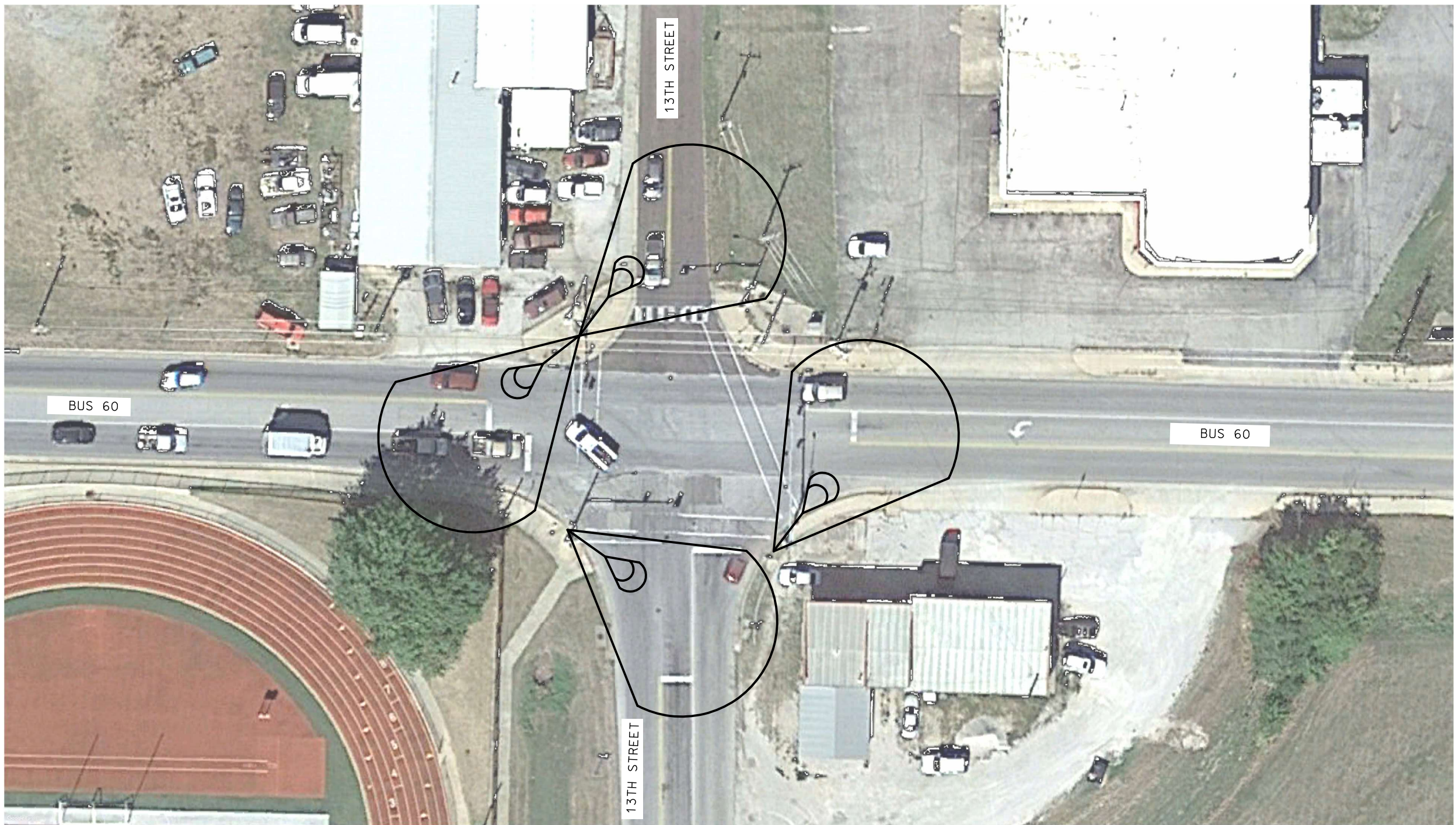
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

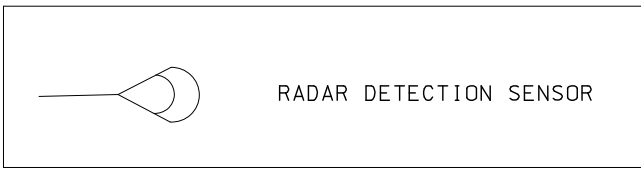


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

RADAR DETECTION LOCATIONS



NOT TO SCALE



INSTALL RADAR DETECTION AT THESE INTERSECTIONS.
SEE QUANTITY SHEETS AND JSP FOR PAY ITEM.

SPECIAL SHEET
SHEET 5 OF 7

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-29-2024 11:31:40

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

BU 60

STATE

MO

DISTRICT

SW

SHEET NO.

8

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

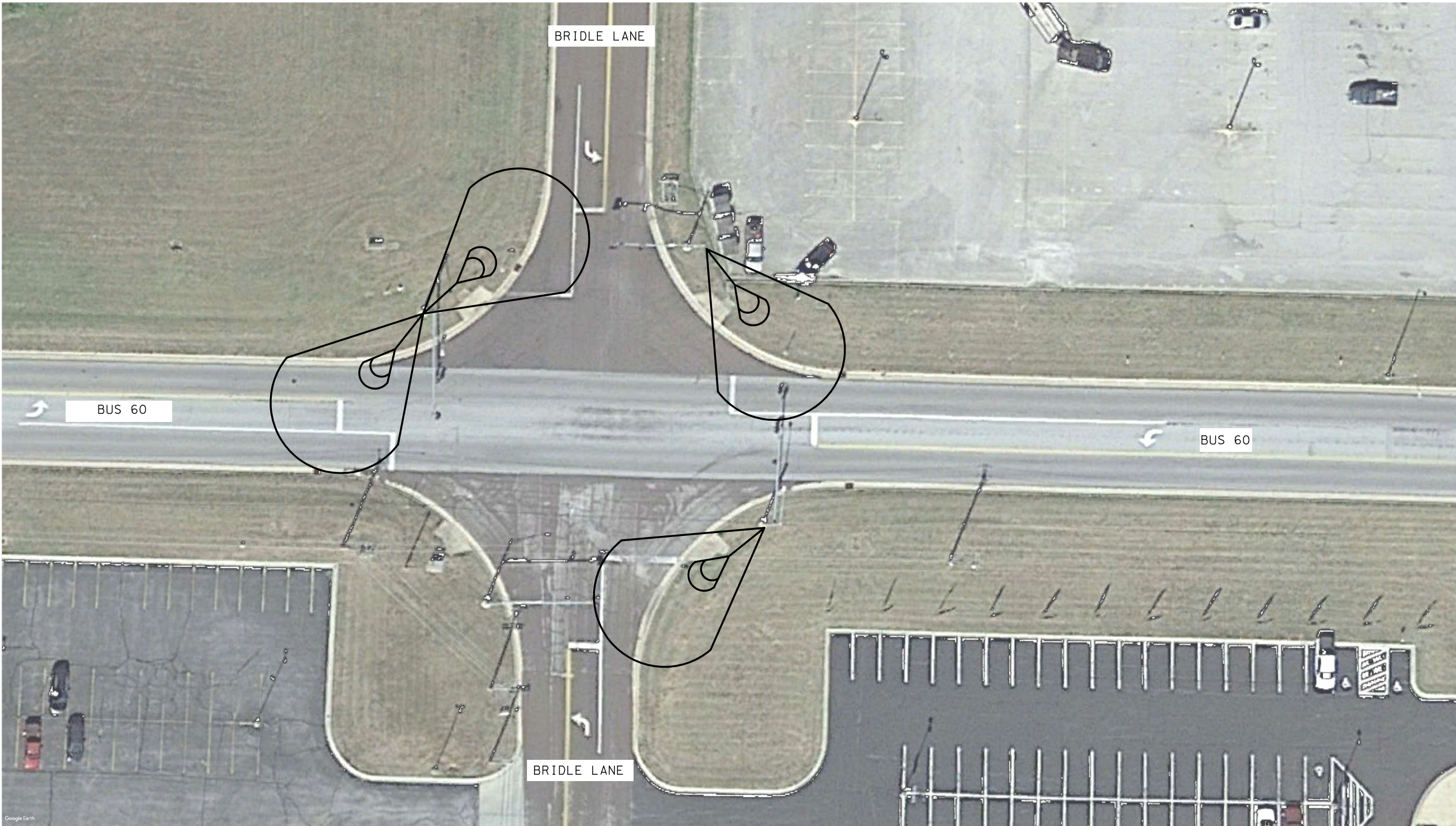
MODOT

105 WEST CAPITOL

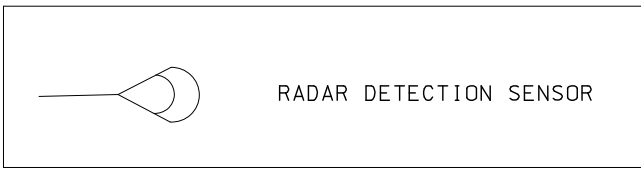
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

RADAR DETECTION LOCATIONS

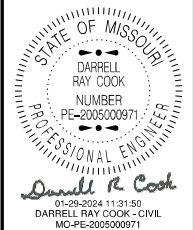


NOT TO SCALE



INSTALL RADAR DETECTION AT THESE INTERSECTIONS.
SEE QUANTITY SHEETS AND JSP FOR PAY ITEM.

SPECIAL SHEET
SHEET 6 OF 7



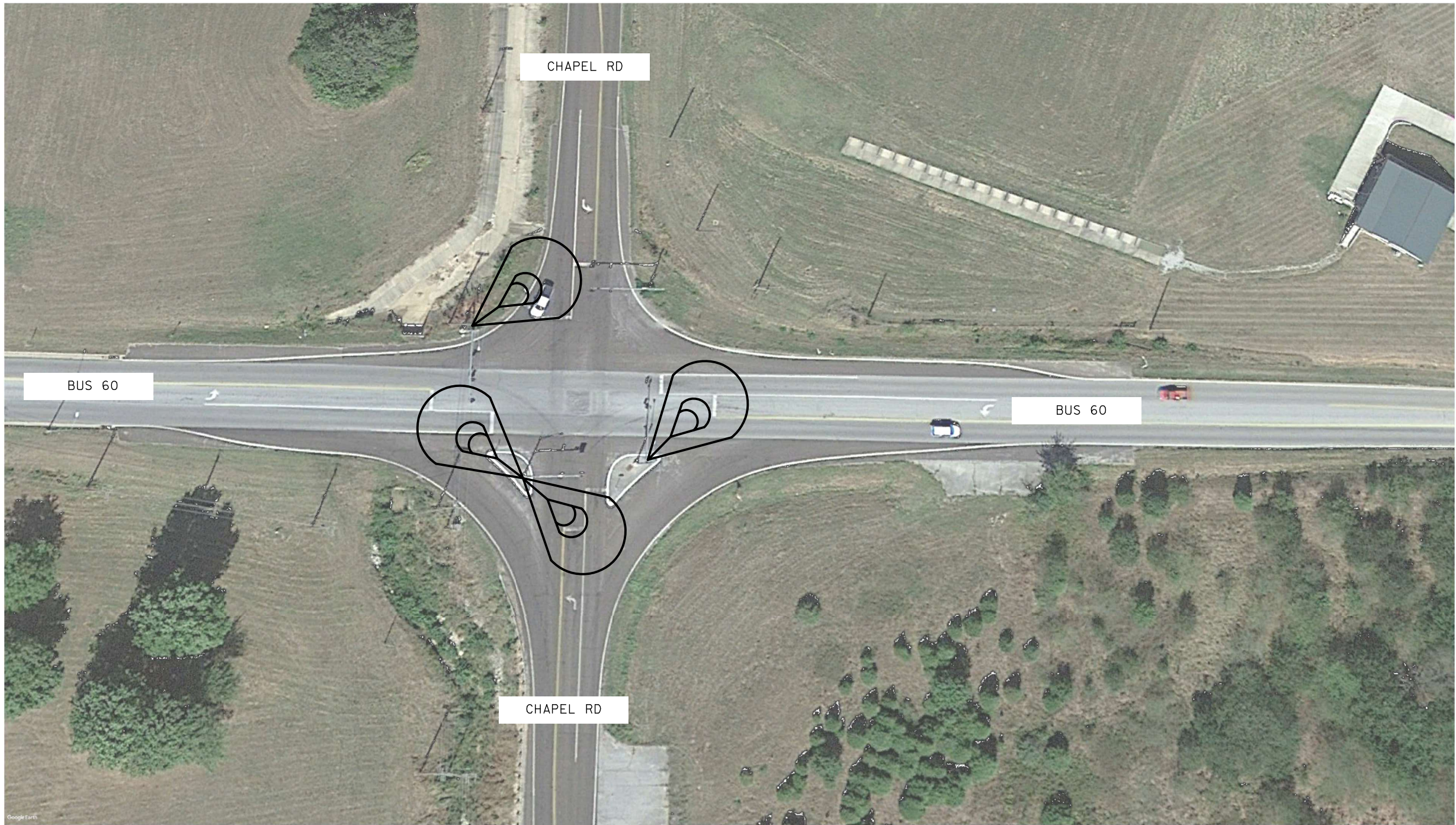
DATE PREPARED 1/26/2024	
ROUTE BU 60	STATE MO
DISTRICT SW	SHEET NO. 9
COUNTY LAWRENCE	
JOB NO. J7S3444	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

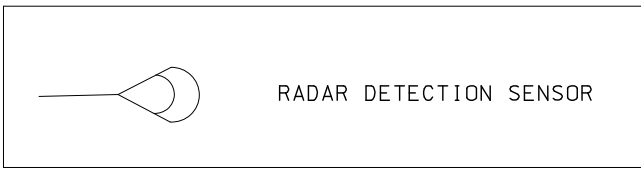
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

RADAR DETECTION LOCATIONS

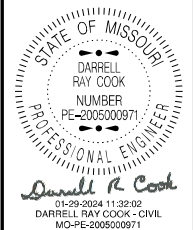


NOT TO SCALE



INSTALL RADAR DETECTION AT THESE INTERSECTIONS.
SEE QUANTITY SHEETS AND JSP FOR PAY ITEM.

SPECIAL SHEET
SHEET 7 OF 7



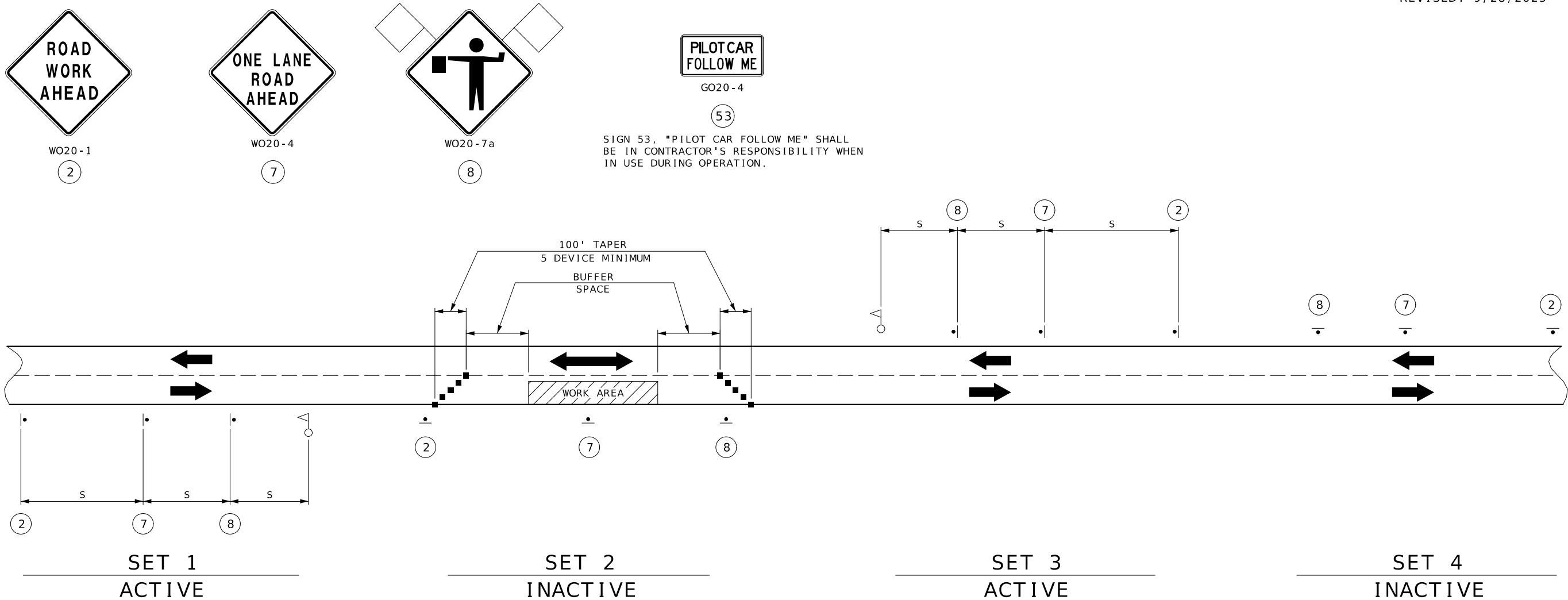
DATE PREPARED 1/26/2024	
ROUTE BU 60	STATE MO
DISTRICT SW	SHEET NO. 10
COUNTY LAWRENCE	
JOB NO. J7S3444	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION. SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

NOTES:

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC.

WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

■ - CHANNELIZERS

○ - FLAGGER

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

SPEED	SIGN SPACING (FT) (1)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	280
40-45	350	400
50-55	500	560
60-70	1000	840

SPACING NOTES:

- (1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.

MOVING FLAGGER OPERATION
(UNDIVIDED HIGHWAY)

NOT TO SCALE

STATE OF MISSOURI
DARRELL RAY COOK
NUMBER
PE-2005000971
PROFESSIONAL ENGINEER
Darrell R. Cook
01-28-2024 11:32:22
DARRELL RAY COOK - CIVIL
MO-PE-2005000971

DATE PREPARED
1/26/2024

ROUTE
BU 60

STATE
MO

DISTRICT
SW

SHEET NO.
12

COUNTY
LAWRENCE

JOB NO.
J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

1/26/2024

ROUTE	STATE
BLL 60	MO

DISTRICT	SHEET NO.
SW	13

LAWRENCE

JOB NO.
1762444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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Journal of Interpersonal Violence

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10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

10. *Journal of the American Medical Association*, 2000; 284: 2561-2566.

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

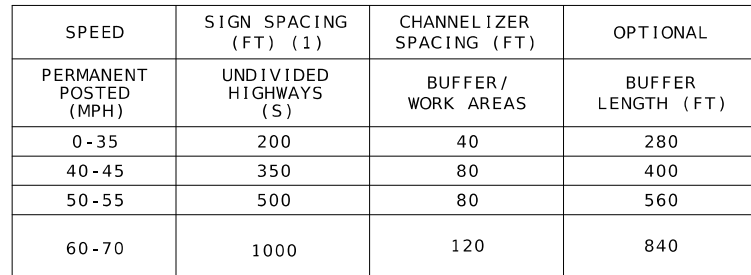
10. *Journal of the American Medical Association*, 2000; 284: 2561-2566.

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10. *Journal of the American Medical Association*, 2000; 284: 1361-1366.

1. *Journal of the American Medical Association*, 1997; 278: 1019-1024.

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

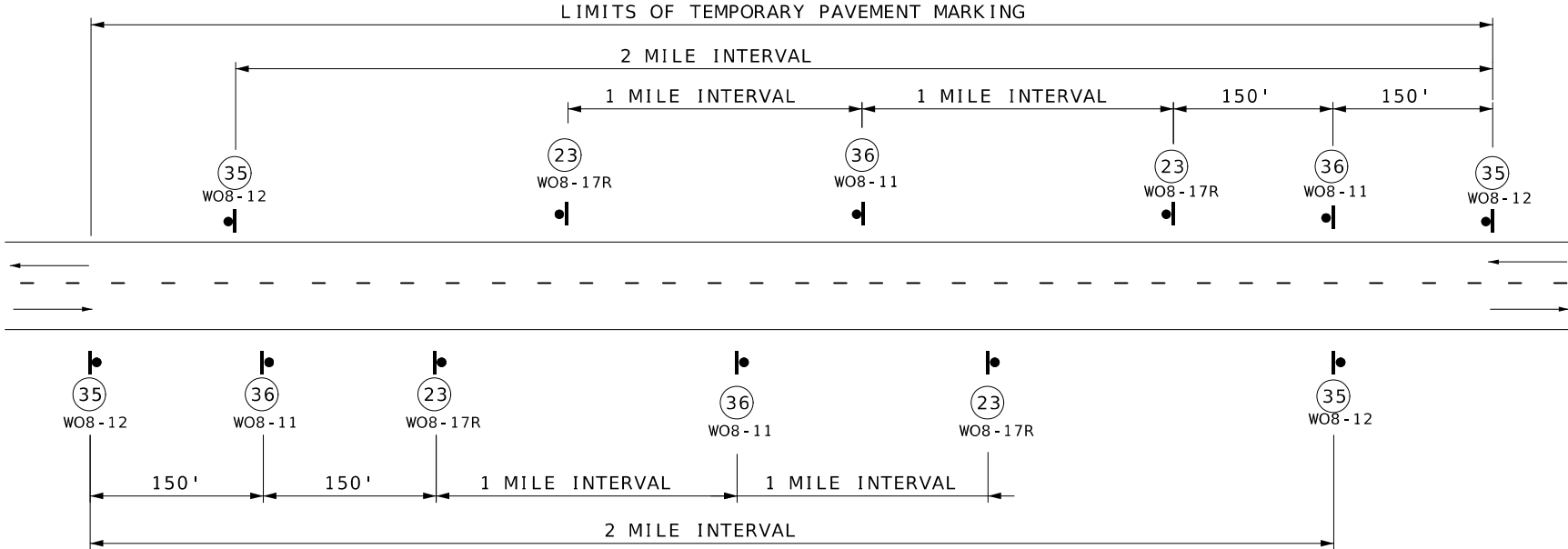


LANE CLOSURE USING FLAGGERS
(UNDIVIDED HIGHWAY)

NOT TO SCALE

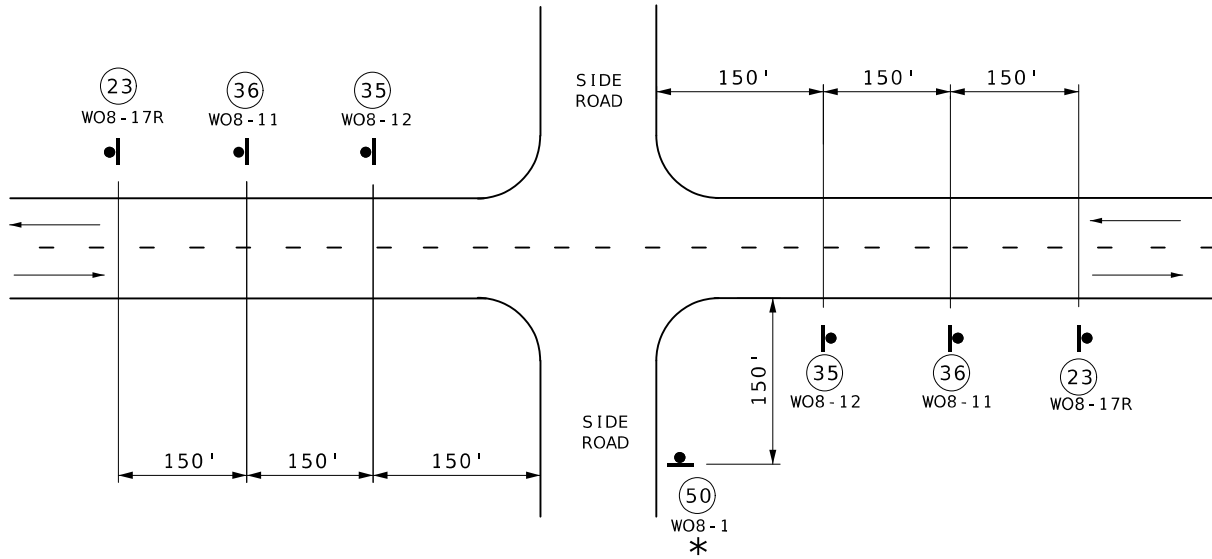
TRAFFIC CONTROL
SHEET 3 OF 11

REVISÉD: 4/25/2023



SIGN SPACING FOR MAINLINE

(DETAIL SHOWN IS BASED ON A PROJECT MEETING ALL CONDITIONS: NO CENTER STRIPE, UNEVEN LANES, SHOULDER DROP-OFF AND BUMP.)
WHEN BOTH UNEVEN LANES AND SHOULDER DROP-OFF SIGNS ARE USED, BOTH SIGNS SHALL STAY IN PLACE UNTIL BOTH CONDITIONS NO LONGER EXIST.
IF ONLY ONE CONDITION EXISTS (UNEVEN LANES OR SHOULDER DROP-OFF). THE SIGN SPACING SHALL BE AT 1 MILE INTERVALS.



SIGN SPACING AT SIDE ROAD INTERSECTIONS

* BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10.
UNLESS REQUIRED BY STANDARD PLAN 619.10, BUMP SIGN AT CONTRACTOR'S
EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.



SHOULDER
DROP-OFF

WO8 - 17R
WO8 - 17p

(23)



WO8-1
(50) *



WO8 - 11

(36)



WO8 - 12

(35)

GENERAL NOTES:

FOR DETAILS OF TEMPORARY PAVEMENT MARKING, SEE
STD. 620.10, SHEET 1 OF 5.

SIGN 35 AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

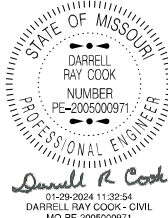
ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE
WITH STANDARD PLAN 616.10 AND 903.03.

WHEN SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE DAYS, THE SHOULDER DROP-OFF PLAQUE SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN.

FOR BRIDGE EXCEPTIONS AND COLD MILLED AREAS, LOCATION OF SIGN (50) TO BE APPROVED BY THE ENGINEER. UNLESS REQUIRED BY STANDARD PLAN 619.10, SIGN (50) AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 5 OF 11



DATE PREPARED

ROUTE	ST
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DISTRICT	SHEET
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COUNTY

LAWRENCE

J7S3444

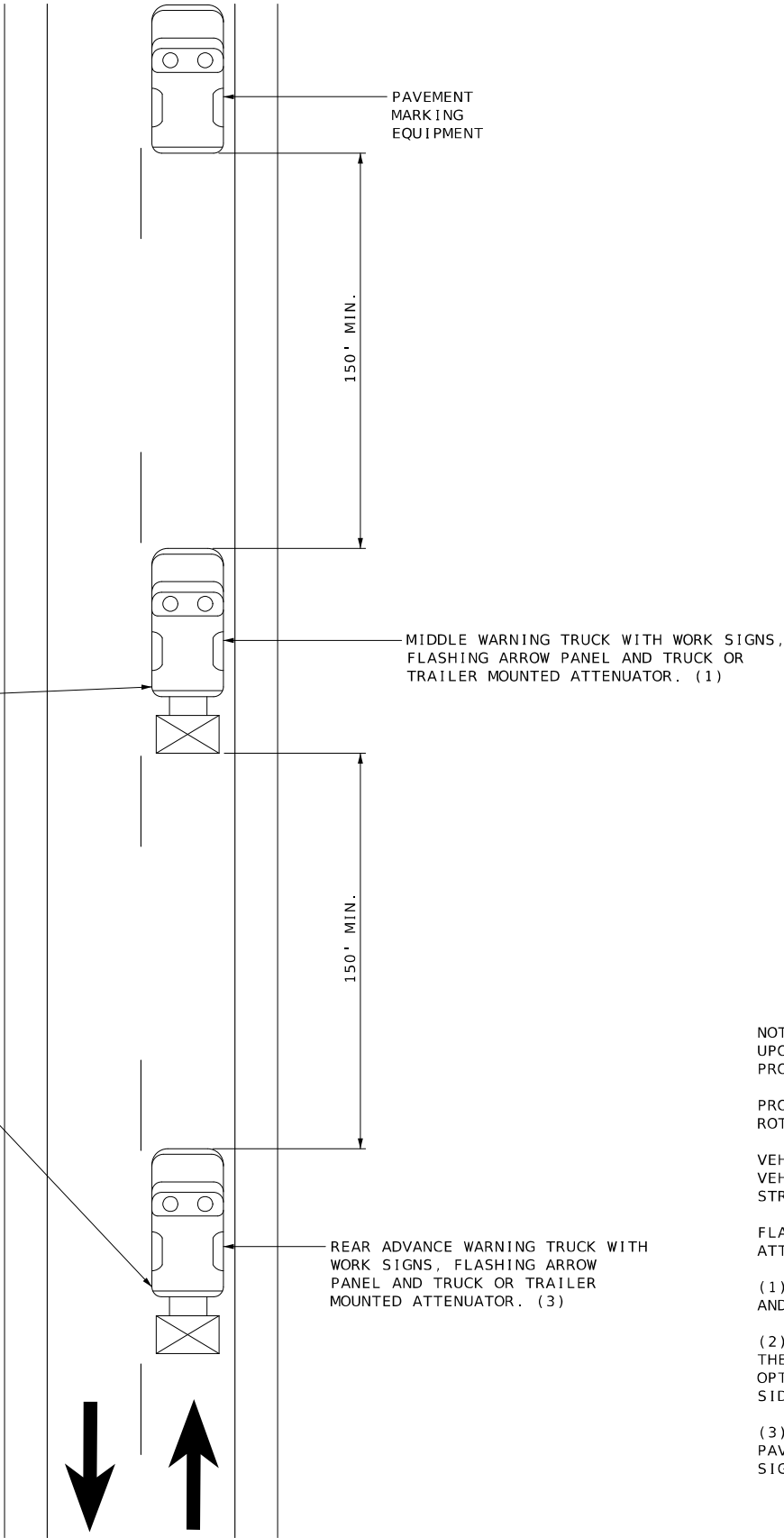
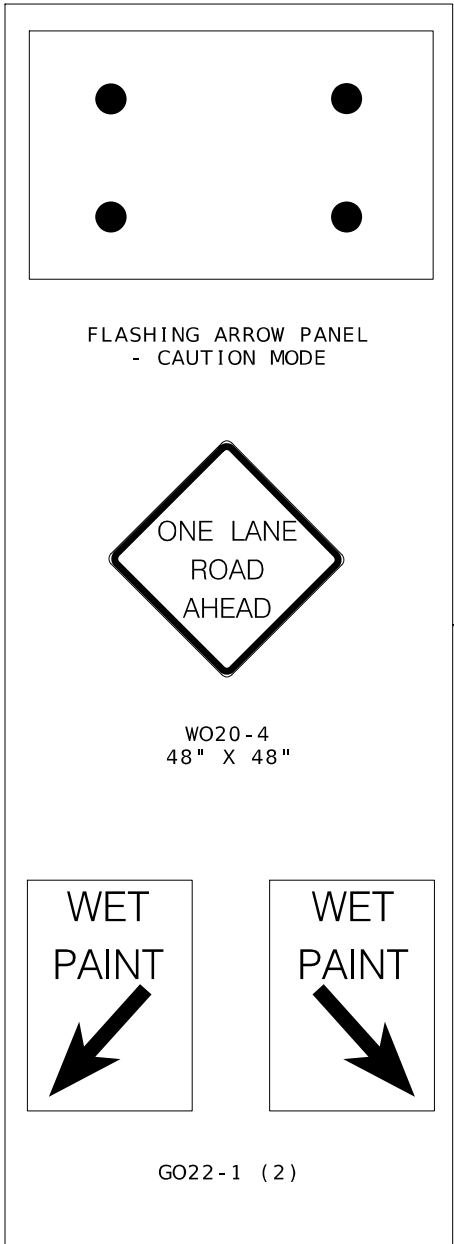
CONTRACT ID

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102



NOTES:
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

FLASHING ARROW PANELS AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-29-2024 11:33:06

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

STATE

BU 60MO

DISTRICT

SHEET NO.

SW16

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

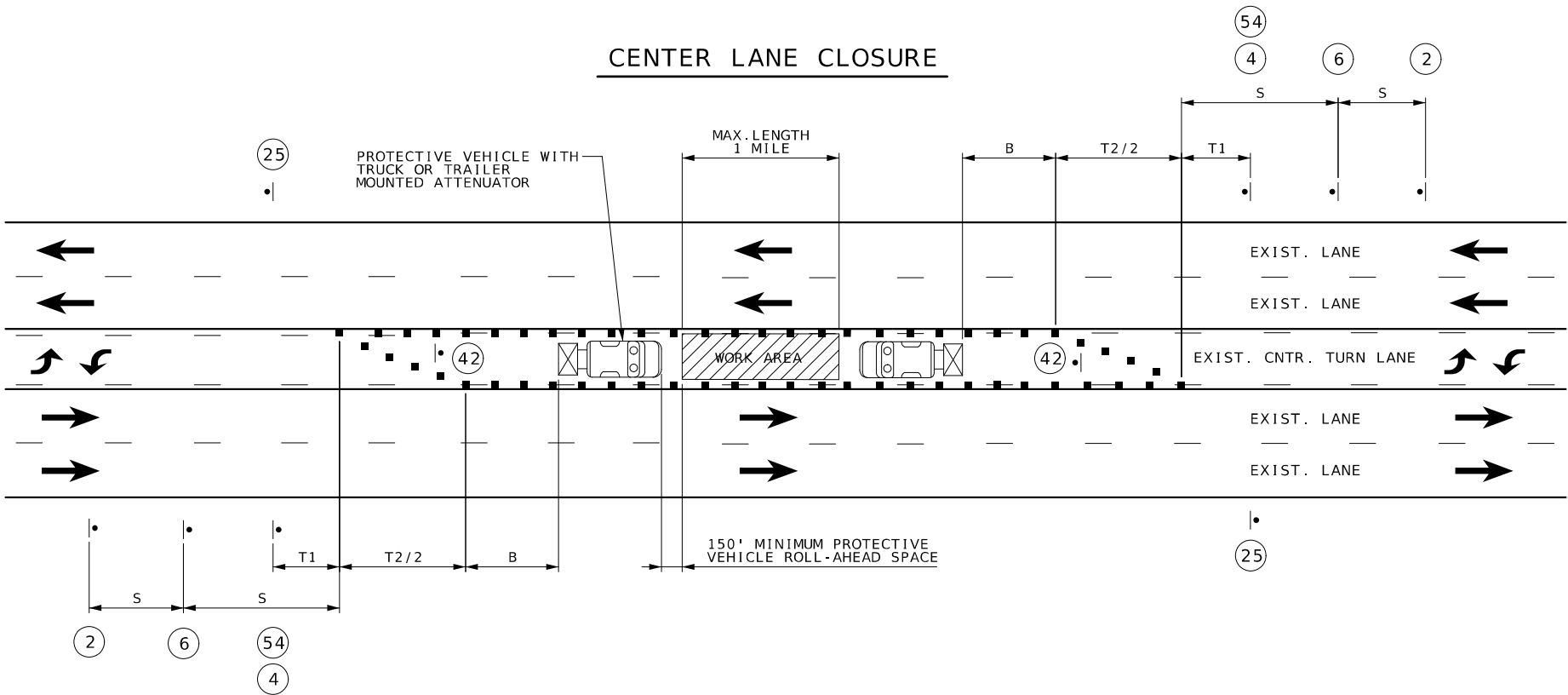
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)



SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL BUFFER LENGTH (FT) (B)	CHANNELIZER SPACING (FT)	
		SHOULDER (1) (T1)	LANE (2) (T2)		TAPERS	BUFFER/ WORK AREAS
0-35	200	70	245	280	35	40
40-45	350	150	540	400	40	80
50-55	500	185	660	560	50	80
60-70	1000	235	840	840	60	120

NOTES:

(1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

IN TAPER SECTIONS, QUANTITY OF CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAXIMUM CHANNELIZER SPACING IN CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURE, NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CHANNELIZERS, SIGNS, AND FLASHING ARROW PANEL.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING IS ONE-HALF SPACING SHOWN IN TABLE.

SPEED LIMIT SIGNS INDICATING NORMAL SPEED LIMIT SHALL BE INSTALLED AT END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", "NO PHONE ZONE", AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS. SEE JOB SPECIAL PROVISIONS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.



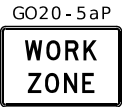
WO20-1
(2)



WO20-6a
(6)



R4-7a
(42)



R2-1
(54)
(4)



R2-1
(25)
(NORMAL SPEED)

NOT TO SCALE



DATE PREPARED
1/26/2024

ROUTE BU 60 STATE MO

DISTRICT SW SHEET NO. 17

COUNTY LAWRENCE

JOB NO. J7S3444

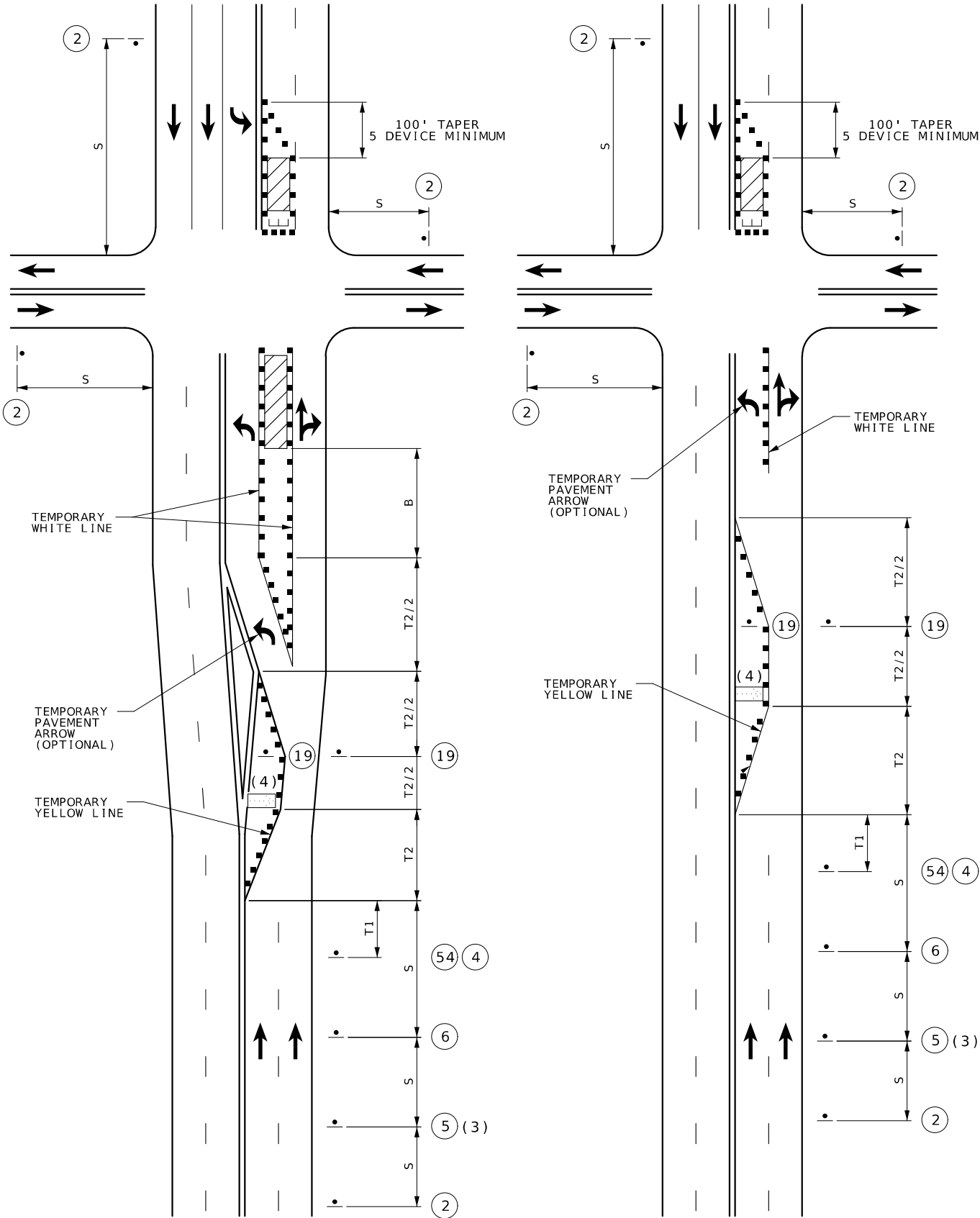
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE





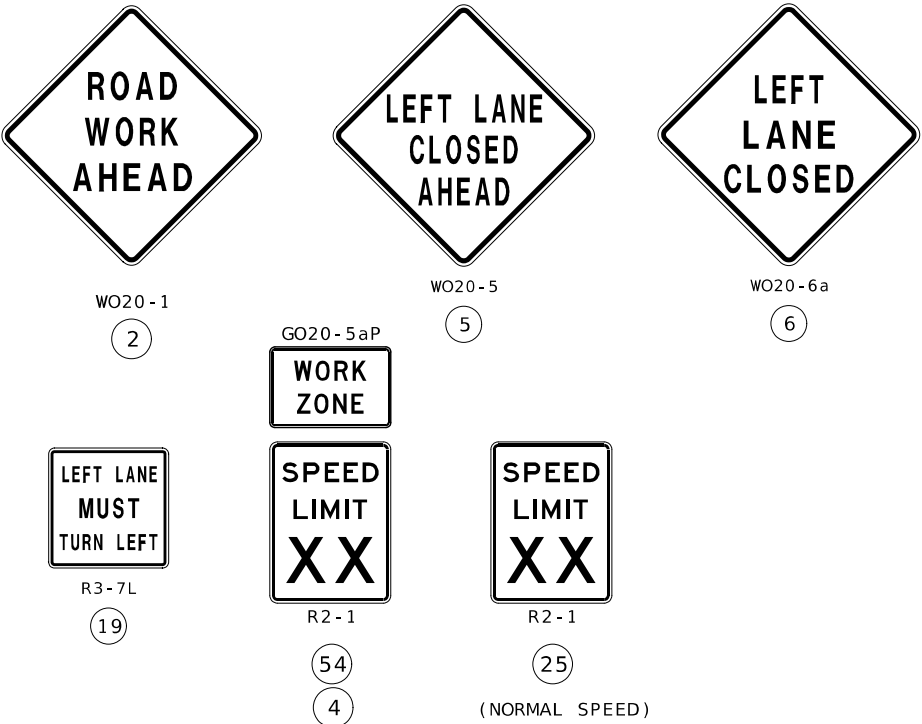
WORK ON NEAR OR FAR SIDE

WORK ON FAR SIDE ONLY

LEFT LANE CLOSURE AT INTERSECTION

SPEED	SIGN SPACING (FT)		TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER / WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

- NOTES:
- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
 - (2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
- FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.
- REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.
- PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.
- FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE-HALF OF THE SPACING.
- (3) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.
 - (4) FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.



NOT TO SCALE

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

01-28-2024 11:33:25

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

BU 60

DISTRICT

SW

STATE

MO

SHEET NO.

18

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

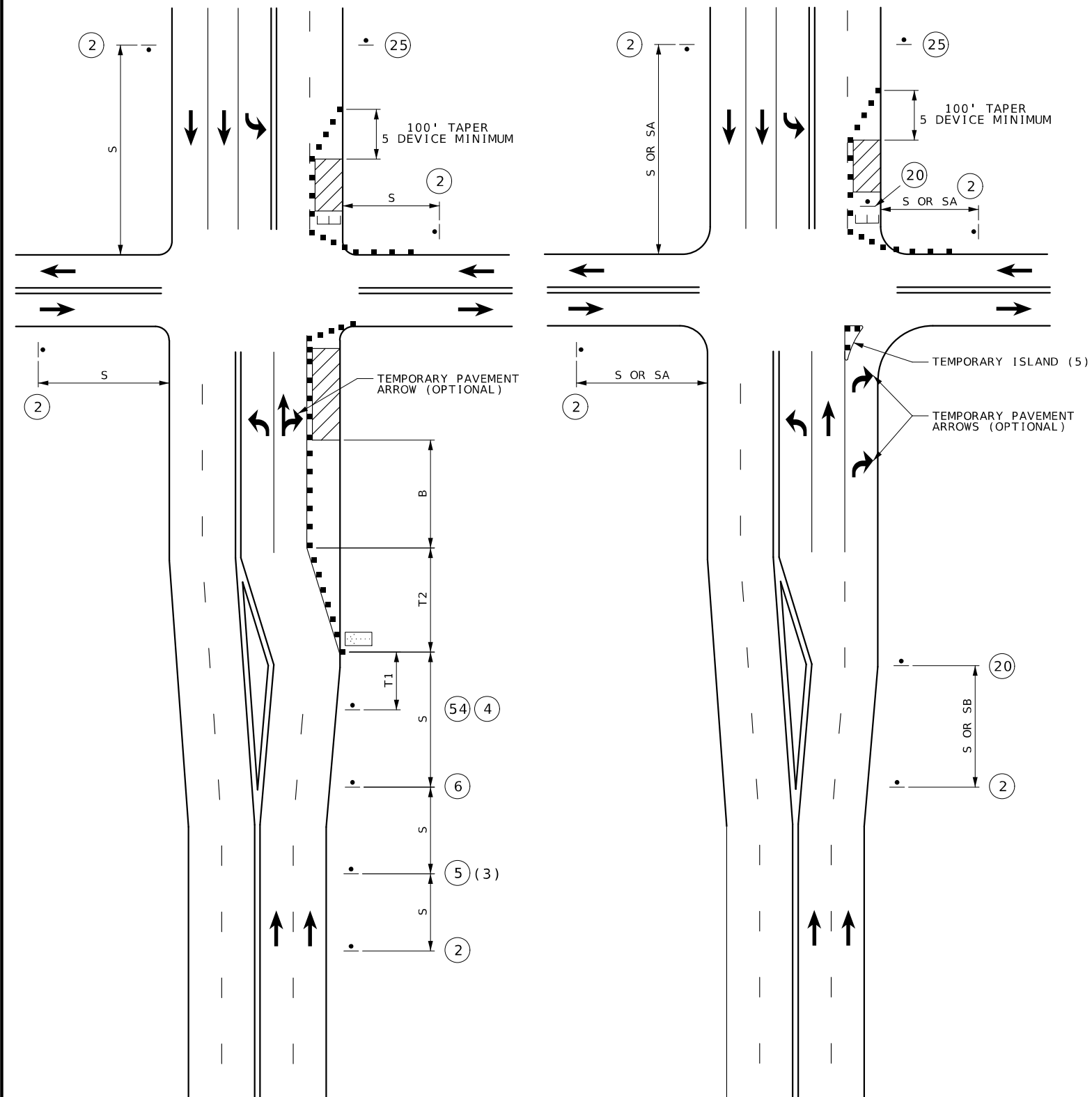
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



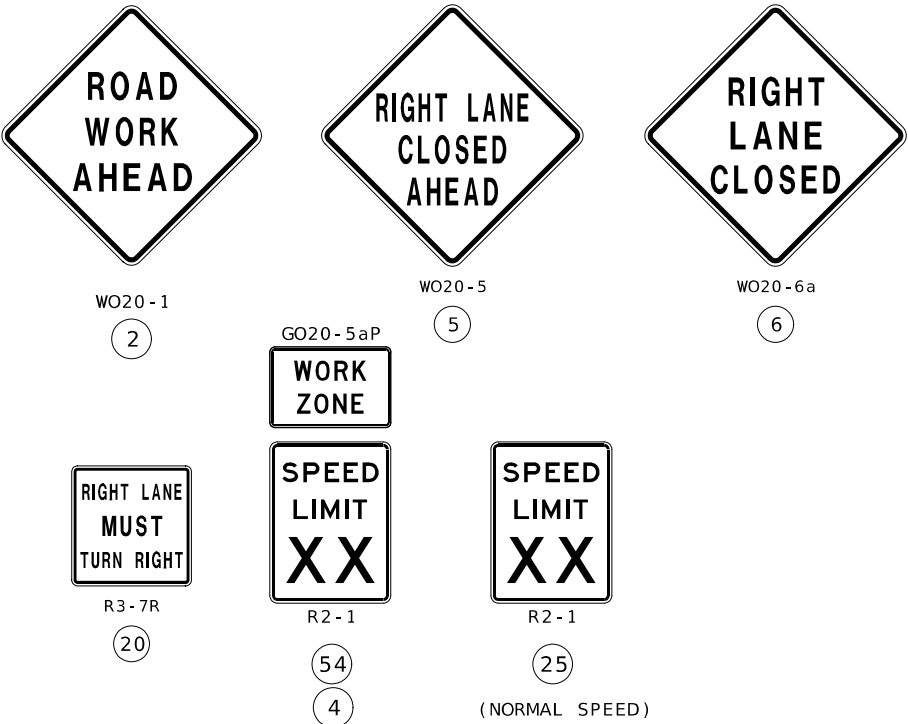
WORK ON NEAR OR FAR SIDE

WORK ON FAR SIDE ONLY (4)

RIGHT LANE CLOSURE AT INTERSECTION

SPEED	SIGN SPACING (FT)		TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

- NOTES:
- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
- FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.
- REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.
- PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.
- FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE-HALF OF THE SPACING.
- (3) RIGHT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.
- (4) TYPICAL APPLICATION ONLY APPLIES WHERE A SIGNIFICANT PERCENTAGE OF THE APPROACH TRAFFIC TURNS RIGHT.
- (5) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.



NOT TO SCALE

STATE OF MISSOURI

DARRELL RAY COOK

NUMBER

PE-2005000971

PROFESSIONAL ENGINEER

Darrell R. Cook

01-28-2024 11:33:36

DARRELL RAY COOK - CIVIL

MO-PE-2005000971

DATE PREPARED

1/26/2024

ROUTE

BU 60

STATE

MO

DISTRICT

SW

SHEET NO.

19

COUNTY

LAWRENCE

JOB NO.

J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MODOT

SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER / WORK AREAS
0-35	200	70	245	280	35	40
40-45	350	150	540	400	40	80
50-55	500	185	660	560	50	80
60-70	1000	235	840	840	60	120

NOTES:

- (1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
(3) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.



WO20-1
(2)



WO21-5
(21)



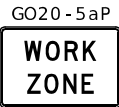
WO5-1



WO7-3a

(43) *

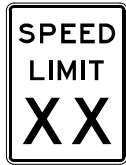
* OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.



R2-1



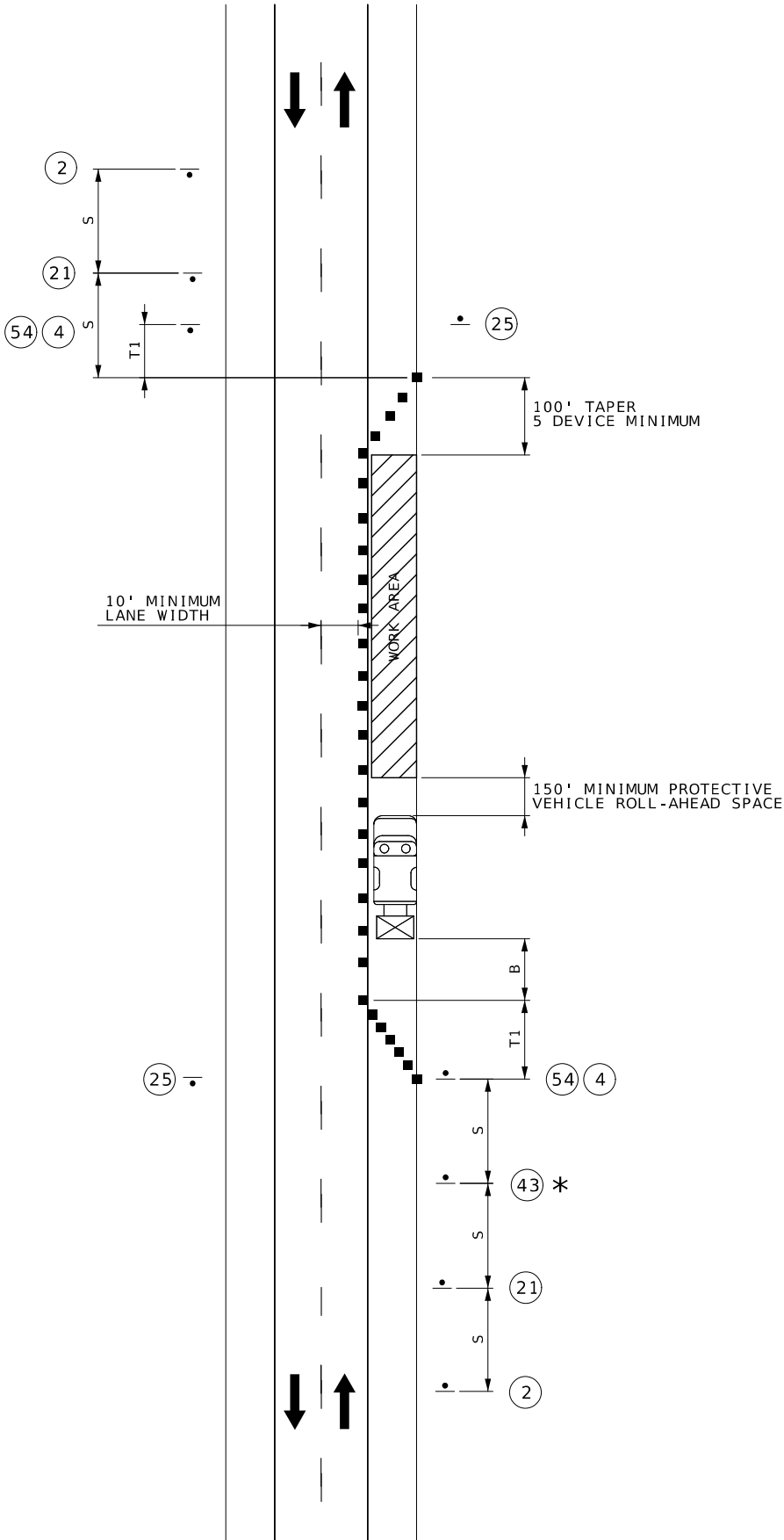
(54)
(4)



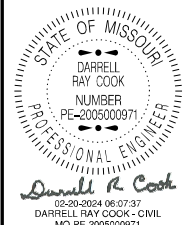
R2-1

(25)
(NORMAL SPEED)

SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT
OR NO ENCROACHMENT
(UNDIVIDED HIGHWAY)



REVISED: 5/11/2023



DATE PREPARED 2/13/2024	
ROUTE BU 60	STATE MO
DISTRICT SW	SHEET NO. 20
COUNTY LAWRENCE	
JOB NO. J7S3444	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

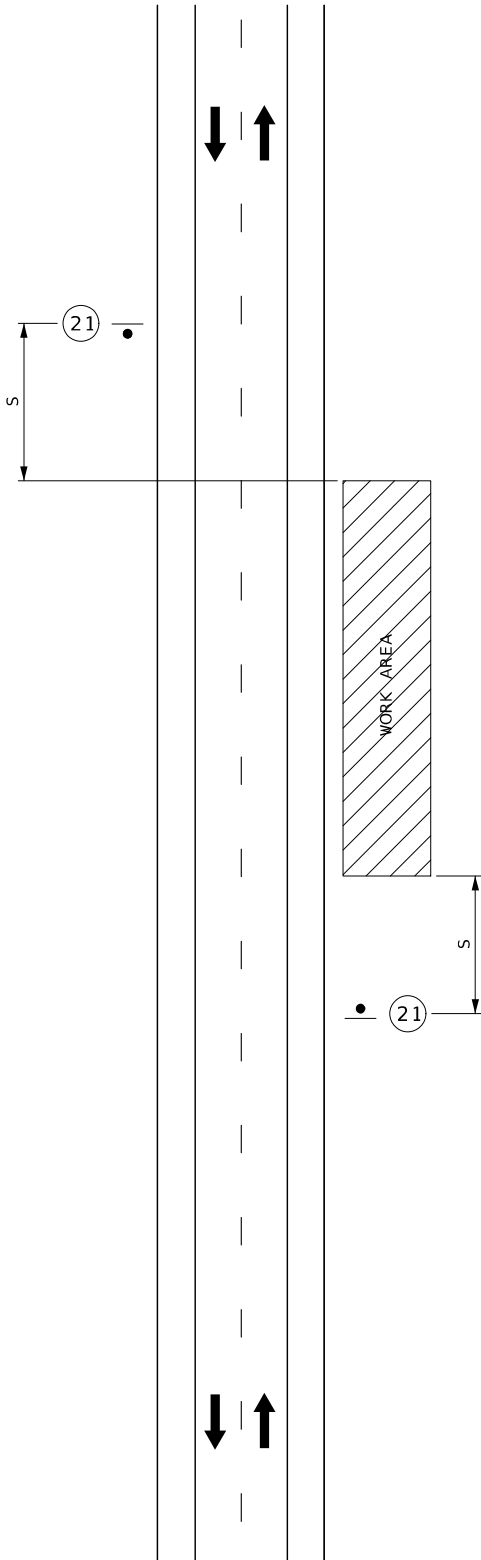
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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NOT TO SCALE

WORK BEYOND THE SHOULDER
(UNDIVIDED HIGHWAY)



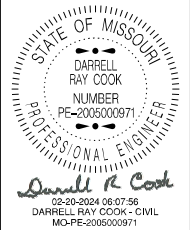
SPEED	SIGN SPACING (FT) (1)
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)
0-35	200
40-45	350
50-55	500
60-70	1000

SPACING NOTES:
(1) SPACING BETWEEN SIGNS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.



WO21 - 5
(21)

NOT TO SCALE



DATE PREPARED 2/13/2024	
ROUTE BU 60	STATE MO
DISTRICT SW	SHEET NO. 21

COUNTY
LAWRENCE

JOB NO.
J7S3444

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)